

DOCUMENT RESUME

ED 451 048

SE 064 604

TITLE Graduate Students and Postdoctorates in Science and Engineering: Fall 1999.

INSTITUTION National Science Foundation, Arlington, VA. Div. of Science Resources Studies.

REPORT NO. NSF-01-315

PUB DATE 2001-02-00

NOTE 166p.

AVAILABLE FROM National Science Foundation, Div. of Science Resources Studies, 4201 Wilson Blvd., Suite 965, Arlington, VA 22230. Tel: 703-292-8774.

PUB TYPE Numerical/Quantitative Data (110)

EDRS PRICE MF01/PC07 Plus Postage.

DESCRIPTORS Doctoral Degrees; Engineering Education; *Graduate Students; Higher Education; Masters Degrees; *Postdoctoral Education; Science Education; *Statistical Data; World Wide Web

IDENTIFIERS *National Institutes of Health; *National Science Foundation

ABSTRACT

The data presented in this book are derived from the Fall 1999 National Science Foundation/National Institute of Health (NSF/NIH) Survey of Graduate Students and Postdoctorates in Science and Engineering. The published data represent estimates of total enrollment in science and engineering programs in approximately 11,833 graduate departments at 599 institutions in the United States and outlying areas. NSF has collected data on graduate enrollment and postdoctoral employment since 1966. All eligible institutions were included in the survey beginning in 1988. In 1992, the citizenship categories requested were modified to conform to those used in other surveys conducted by NSF and the National Center for Education Statistics (NCES). The text is divided into six categories including general notes, technical notes, detailed statistical tables, survey materials, list of doctorate-granting and master's-granting institutions, and getting information on the World Wide Web. (SAH)

Graduate Students and Postdoctorates in Science and Engineering

Fall 1999

Detailed Statistical Tables

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February 2001



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Detailed Statistical Tables

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Division of Science Resources Studies
Directorate for Social, Behavioral, and Economic Sciences

National Science Foundation



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Suggested Citation

National Science Foundation, Division of Science Resources Studies, *Graduate Students and Postdoctorates in Science and Engineering: Fall 1999*, NSF 01-315, Project Officer, Joan Burrelli (Arlington, VA 2001).

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GENERAL NOTES

Data presented in these tables are derived from the fall 1999 National Science Foundation/National Institutes of Health (NSF/NIH) Survey of Graduate Students and Postdoctorates in Science and Engineering. Unless otherwise specified, the published data represent estimates of total enrollment in science and engineering (S&E) programs in approximately 11,833 graduate departments at 599 institutions in the United States and outlying areas.

NSF has collected data on graduate enrollment and postdoctoral employment since 1966. Note, however, that these data were collected on a limited or sample basis from 1984 through 1987 (see Technical Notes for further information). Beginning in 1988, all eligible institutions were included in the survey.

In 1992, the citizenship categories requested were modified to conform to those used in other surveys conducted by NSF and the National Center for Education Statistics, among others. Previously, permanent residents (those who held green cards but had not yet been granted U.S. citizenship) were included in the "Foreign"

category; after 1992, these individuals were included in the "U.S. citizens" total and reported according to racial/ethnic background.

For these reasons, and because institutions may revise their data for earlier years, only the latest trend data should be used in historical analyses.

Tables showing data on source or mechanism of support refer only to primary (that is, largest) source or mechanism of support.

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TECHNICAL NOTES¹

SURVEY UNIVERSE

The data collected in the fall 1999 Survey of Graduate Students and Postdoctorates in Science and Engineering represent national estimates of graduate enrollment and postdoctoral employment at the beginning of academic year 1999–2000 in all academic institutions in the United States that granted doctorate or master's degrees in any science or engineering field. Included are data for all branch campuses, affiliated research centers, and separately organized components such as medical or dental schools, schools of nursing, public health, etc. The survey universe consisted of 720 reporting units at 599 graduate institutions. Included were 242 master's-granting institutions and 478 reporting units associated with 357 doctorate-granting institutions.

The National Science Foundation (NSF) has collected data on graduate science and engineering (S&E) enrollment and postdoctoral appointees since 1966. From fall 1966 through fall 1971, data from a limited number of doctorate-granting institutions were collected through the NSF Graduate Traineeship Program, which requested data only on those S&E fields supported by NSF. Beginning with the fall 1972 survey, this data collection effort was assigned to NSF's Universities and Nonprofit Institutions Studies Group and was gradually expanded from 1972–75 to include additional S&E fields as well as all institutions known to have programs leading to a master's or doctoral degree. Due to this expansion, data for 1974 and earlier years are not strictly comparable with 1975 and later data. Technical table 1 shows the number of institutions, reporting units, and departments at each level included in the data, as well as the total enrollment reported for each year between 1966 and 1999. No attempt has been made to inflate the data for 1966–74 to reflect universe totals.

Beginning with the 1984–85 academic year, master's-granting institutions were surveyed on a sample basis. From 1984–87 the survey design was a stratified random sample, with all doctorate-granting institutions, all master's-granting historically black colleges and universities, and all land-grant institutions included in the certainty stratum. The remaining master's-

granting institutions were divided into two sample strata on the basis of enrollment size. Data for sampled institutions for the years 1984–87 were reestimated in 1988 on the basis of 1983 and 1988 data. During the 1989 survey cycle, S&E field definitions were reviewed and some departments were deleted. Data for 1975–88 were adjusted to conform to the revised definitions.

The fall 1988 survey included the entire survey population for the first time since 1983–84. Since 1988, any institutions starting up S&E master's or doctoral programs have been added to the survey universe, and any that have closed all their S&E graduate programs have been deleted. (See Survey Methodology, below.)

Technical tables 2 and 3 present data on departmental coverage by S&E field for doctorate- and master's-granting institutions for the last 8 years surveyed.

SURVEY INSTRUMENTS

The survey questionnaire on which data were reported in fall 1999 was different from that used in fall 1998. The 1999 survey questionnaire was the first in which the Department of Energy was added as a source of support category. In addition, many of the race/ethnicity categories were changed in 1999. This year the Asian American category and the Native Hawaiian/Pacific Islander category were separated. In previous years both had been combined into the Asian/Pacific Islander category. Two new categories were also added to the race/ethnicity section of the survey, More than One Race Hispanic and More than One Race Non-Hispanic. The "other" category, included in previous years' surveys, was removed from the 1999 survey. Finally, first-time enrollment by race/ethnicity was requested for the first time in 1999.

Please note that while these changes were made to the 1999 survey questionnaire, they are not reflected in the published tables. The data reported in the new categories were combined into the previous years' survey categories for table production. Of the 11,833 departments that reported data, 4.6 percent reported students under the Department of Energy column. These data were combined with the data

¹See <http://www.nsf.gov/sbe/srs/sgss/start.htm> for a more detailed discussion of the methodology used in this survey.

in the "Other Federal Sources of Support" category in the published tables. For the race/ethnicity section of the survey, 19.8 percent of the departments provided data in the new categories. The data from these departments were collapsed into the following categories: the "Asian American" category data were combined with the "Native Hawaiian/Pacific Islander" category data to comprise the "Asian/Pacific Islander" category on the tables; the "one Race Only Hispanic" category data and the "More than One Race Hispanic" category data were combined to produce the "Hispanic" category on the tables; and the "More than One Race Non-Hispanic" category data were combined with the "Unknown" category to form the "Other or Unknown" category on the tables.

In addition to the questionnaire proper, each survey package also included the following:

- an enclosure detailing mailing package contents;
- a flyer explaining NSF's academic S&E surveys;
- a cover letter to survey coordinators at graduate schools or at medical schools;
- a cover letter to departmental respondents;
- a computer-generated List of Departments or Programs (NSF Form 811) specific to each institution surveyed and based on the departments known to exist in the previous survey cycle;
- a "crosswalk" showing National Center for Education Statistics instructional program codes corresponding to each S&E field as defined by NSF;
- a "How to Avoid Common Survey Errors" sheet with guidelines for avoiding the most common mistakes made in the graduate student survey;
- a postcard for respondent use acknowledging receipt of the survey and indicating any changes in coordinator name, address, telephone number, or e-mail address;

- a "Web-Based Data Reporting System" announcement introducing and explaining the new Web system, which allows coordinators and departments to enter data directly into the system through the Internet;
- a letter explaining the changes to this year's survey;
- an "ID and Password" flyer informing coordinators of their IDs and passwords so they can access the new NSF-NIH Graduate Student Survey Web-Based Data Reporting System; and
- an "Accessing NSF Data on the Internet" sheet encouraging coordinators to view last year's data on the Web via the NSF Science Resources Studies home page.

SURVEY METHODOLOGY

The survey packages were mailed out by November 30, 1999. This was the second year in which schools had the option of reporting data using the new NSF-NIH Graduate Student Survey Web-Based Data Reporting System. Three hundred and twenty-seven schools chose to report data using the new Web system. The final survey universe consisted of 720 reporting units at 599 institutions.

In addition to the verification information cited above, the acknowledgment postcard also requested that institutional coordinators indicate how the data were collected, whether the data were maintained centrally or collected from individual departments, and whether they were derived from a computerized database or hand tabulated. Of the 720 reporting units surveyed, 98.9 percent have provided this information over the past 10 years. The majority of schools report a combination of sources for their data. Over the years, the use of computerized systems has shown a gradual but small increase, while the use of hand tabulation has slowly decreased.

Institutional coordinators were asked to review the departmental listing provided in the survey packet and to indicate any changes in their departmental structure such as departments newly formed, phased out, split, or merged; they were also asked to check off any departments that had neither graduate students nor postdoctorates and for which survey ques-

tionnaires would therefore not be submitted. The revised Form 811s were returned to NSF's data processing contractor for use as a checklist in tracking departmental responses.

A survey questionnaire was completed for each department either centrally or at the department level and was returned to the data processing contractor for data entry, editing, and tabulation. Arithmetic errors, inconsistencies between items, and sharp year-to-year fluctuations were referred to the institutional coordinators for correction or clarification.

RESPONSE RATE

Of the 720 reporting units included in the fall 1999 survey, 716—or 99.4 percent—were able to provide at least partial data, distributed as follows:

At the departmental level, 11,685 departments responded, or 98.7 percent of the 11,833 departments surveyed. Of these, 9,396 departments, or 79.4 percent of the total, provided complete responses. A total of 148 departments, or 1.3 percent of the departmental total, required complete imputation; 2,289, or 19.3 percent, had one or more data cells imputed. Technical table 4 presents the department response rates for earlier years for comparison.

Missing data for partially nonrespondent departments were imputed using the departments' previous year's data, where available, or data from peer institutions in cases where data had not been reported the previous year. Data for nonrespondent departments (those that did not provide any data) were imputed using data from the previous year, where available. The number of departments in doctorate- and master's-granting institutions that required total or partial imputation, and the numbers and proportions of full- and part-time graduate students and postdoctorates imputed, are shown in technical tables 5 and 6. Imputation rates by survey data item are provided in technical table 7.

CHANGES IN DATA ITEMS

Although NSF has attempted to maintain consistent trend data, some modifications in the survey questionnaire have been made to respond to changing issues over the past 25 years. As a result, some data items are not available for all institutions in all years.

Major changes in the data collected are as follows:

- From 1975-77, data for master's-granting institutions were collected on a short form (i.e., an abbreviated form of the survey) that did not collect data on sex or citizenship of graduate students, nor any data on postdoctoral appointees. In 1978, a similar questionnaire was sent to doctorate-granting institutions; master's-granting institutions were not surveyed that year. This 1978 questionnaire did not collect data on mechanisms of support for full-time students. All mechanisms of support data for that year were combined on one line and appear as "other types of support" in any data tables. The 1978 figures shown in the tables for master's-granting institutions represent estimates based on 1977 and 1979 data. Beginning in 1979, the full-scale survey form was sent to both doctorate- and master's-granting institutions.
- Distribution by sex was originally requested only for full-time graduate students at doctorate-granting institutions. Beginning in 1976, master's-granting institutions were also asked to provide data on all graduate students by sex; in 1977, similar data were requested for all graduate students in all institutions. The short form used in 1978 did not request any information on sex; figures in the tables represent estimates based on 1977 and 1979 data.
- Citizenship data were collected only for graduate students enrolled full time in doctorate-granting institutions through 1977. No citizenship data were requested on the short form used for master's-granting institutions in 1975 through 1977 and for doctorate-granting institutions in 1978. Data on citizenship of all full-time graduate students are available beginning in 1979 and on those enrolled part time since 1983.
- Racial/ethnic data were first requested in 1979 and became a standard item on the questionnaire in 1980.
- The support mechanisms of "fellowships and traineeships" were combined on one line until 1979, when separate data on the two mechanisms were first collected.

- “Other nonfaculty research staff with doctorates” were combined with postdoctoral appointees until 1979.
- Separate data on students receiving their primary support from the U.S. Department of Agriculture were first requested in 1985.
- Racial/ethnic data by sex were first requested in 1993 and became a standard item on the questionnaire in 1994.
- Separate data on students receiving their primary support from the National Aeronautics and Space Administration were first requested in 1996.
- A new Web-based reporting option was incorporated into the 1998 graduate student survey. Coordinators and departmental respondents both had the option of submitting their data through the World Wide Web. Using this new Web option, schools could avoid manually filling out the paper survey, and could obtain immediate feedback on their responses. This helped coordinators and departmental respondents ensure that their data were accurate and complete. Using this option also enabled respondents to upload their own data files, speeding up the reporting process.
- In 1999 separate data on students receiving their primary support from the Department of Energy were requested. In addition, respondents were presented with new race/ethnicity categories. The Asian/Pacific Islander category, used in previous years’ surveys, was separated into an Asian American category and a Native Hawaiian/Pacific Islander category. Two new categories, More than One Race Hispanic and More than One Race Non-Hispanic, were also added to the survey. The “other” category, included in previous year’s surveys, was removed from the 1999 survey. Also, 1999 was the first year in which first-time enrollment by race/ethnicity was requested. These changes are not reflected in

the 1999 published tables since this is the first year these reporting options have been available.

DATA REVISIONS

During the fall 1988 survey cycle, the criteria for including departments in the survey universe were tightened, and all departments surveyed were reviewed. Those departments not primarily oriented toward granting research degrees were no longer considered to meet the definition of science and engineering. As a result of this review, it was determined that a number of departments—primarily those in the field of “Social sciences, not elsewhere classified”—were engaged in training primarily teachers, practitioners, administrators, or managers rather than researchers; these departments were deleted from the database. This process was continued during the 1989–97 survey cycles and expanded to ensure trend consistency for the entire 1975–97 period. As a result, total enrollments and social science enrollments for all years were reduced. The net effect of adjustments over the years is shown in technical table 8.

During the same period, the survey methodology changed so that the institution’s highest S&E degree in the current year would apply to all previous years in which that institution was surveyed. Since a number of master’s-granting institutions have become doctorate-granting institutions over the years, the result has been a smaller decrease in enrollment at doctorate-granting institutions than at master’s-granting institutions. For the years 1975–76 and 1991–92, there was an increase in enrollment at doctorate-granting institutions after subsequent year modifications.

The definition of medical schools was revised during the fall 1992 survey cycle to include only those institutional components that are members of the Association of American Medical Colleges. Tables generated after the fall 1992 survey differ from their counterparts in earlier years in that they exclude schools of nursing, public health, dentistry, veterinary medicine, and other health-related disciplines; they should not be compared with tables from earlier years.

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Year	Number of institutions surveyed	Number of reporting units surveyed	Number of departments surveyed			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full-time	Part-time
A. Graduate Traineeship Program								
1966	204	204	2,866	441	2,425	169,303	124,255	45,048
1967	209	209	3,014	434	2,580	179,622	133,972	45,650
1968	219	219	3,190	454	2,736	184,759	140,714	44,045
1969	224	224	3,354	460	2,894	196,341	147,515	48,826
1970	227	227	3,544	473	3,071	201,918	153,250	48,668
1971 ¹	224	249	3,397	407	2,990	214,680	164,764	49,916
B. Survey of Graduate Students and Postdoctorates in Science and Engineering²								
Doctorate institutions:								
1972	260	328	4,593	780	3,813	210,895	161,329	49,566
1973	258	335	6,527	852	5,675	214,378	161,555	52,823
1974	279	369	7,474	1,390	6,084	260,001	190,589	69,412
1975	335	432	7,936	1,759	6,177	296,384	207,930	88,454
1976	345	443	8,034	1,816	6,218	300,794	211,767	89,027
1977	346	448	8,259	1,946	6,313	309,338	214,199	95,139
1978	324	432	8,230	1,843	6,387	302,370	209,946	92,424
1979	362	477	8,504	2,017	6,487	318,683	218,215	100,468
1980	361	476	8,607	2,063	6,544	328,330	224,393	103,937
1981	359	472	8,530	2,058	6,472	334,983	228,198	106,785
1982	356	470	8,385	2,042	6,343	341,216	231,193	110,023
1983	355	469	8,260	2,005	6,255	348,167	237,166	111,001
1984	337	455	8,234	1,945	6,289	349,519	237,844	111,675
1985	337	450	8,346	1,984	6,362	358,773	241,421	117,352
1986	337	452	8,417	1,992	6,425	369,370	250,041	119,329
1987	341	458	8,533	1,997	6,536	375,011	254,671	120,340
1988	360	478	8,821	2,123	6,698	381,769	260,490	121,279
1989	361	479	8,943	2,136	6,807	389,322	267,672	121,650
1990	360	478	9,088	2,183	6,905	403,335	276,472	126,863
1991	360	478	9,284	2,205	7,079	418,833	289,084	129,749
1992	360	478	9,520	2,253	7,267	438,109	303,305	134,804
1993	360	478	9,708	2,261	7,447	446,383	309,429	136,954
1994	359	477	9,917	2,317	7,600	447,058	311,064	135,994
1995	358	476	10,092	2,368	7,724	441,360	307,446	133,914
1996	359	477	10,106	2,418	7,688	435,959	306,225	129,734
1997	358	480	10,077	2,487	7,590	429,159	304,029	125,130
1998	358	479	10,155	2,495	7,660	426,529	303,095	123,434
1999	357	478	10,265	2,459	7,806	432,657	309,466	123,191

See explanatory information, if any, and SOURCE at end of table.

Year	Number of institutions surveyed	Number of reporting units surveyed	Number of departments surveyed			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full-time	Part-time
Master's institutions:								
1975 ³	251	251	1,068	1,068	N/A	32,166	11,757	20,409
1976	251	251	1,077	1,077	N/A	32,961	11,679	21,282
1977	257	257	1,134	1,134	N/A	36,078	12,577	23,501
1978 ⁴	276	276	1,279	1,279	N/A	37,542	13,084	24,458
1979	269	269	1,183	1,183	N/A	38,926	13,575	25,351
1980	267	267	1,192	1,192	N/A	38,781	14,055	24,726
1981	265	265	1,199	1,199	N/A	40,175	13,878	26,297
1982	255	255	1,200	1,200	N/A	41,118	13,603	27,515
1983	255	255	1,208	1,208	N/A	42,307	14,889	27,418
1984 ⁵	75	75	557	557	N/A	45,151	16,078	29,073
1985 ⁵	75	75	565	565	N/A	45,248	15,866	29,382
1986 ⁵	75	75	568	568	N/A	46,150	16,127	30,023
1987 ⁵	75	75	571	571	N/A	46,486	16,385	30,101
1988	246	246	1,195	1,195	N/A	42,823	14,695	28,128
1989	248	248	1,245	1,245	N/A	45,230	15,039	30,191
1990	250	250	1,271	1,271	N/A	48,836	16,351	32,485
1991	249	249	1,315	1,315	N/A	52,451	17,971	34,480
1992	248	248	1,353	1,353	N/A	55,515	19,304	36,211
1993	246	246	1,396	1,396	N/A	58,026	20,272	37,754
1994	246	246	1,449	1,449	N/A	57,458	21,085	36,373
1995	245	245	1,475	1,475	N/A	58,390	21,910	36,480
1996	244	244	1,474	1,474	N/A	58,236	22,403	35,833
1997	243	243	1,513	1,513	N/A	58,120	23,281	34,839
1998	243	243	1,531	1,531	N/A	59,195	24,352	34,843
1999	242	242	1,568	1,568	N/A	60,768	24,939	35,829

1 The 1972 survey also collected selected data for 1971.

2 The name of the survey was changed in 1981 to specify the inclusion of engineering.

3 The 1976 survey also collected 1975 data from master's-granting institutions.

4 Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

5 Master's-granting institutions were surveyed on a sample basis from 1984 through 1987.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 2. Number of science, engineering, and health departments
in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	9,520	9,708	9,917	10,092	10,106	10,077	10,155	10,265
Total, science and engineering fields	6,879	6,972	7,111	7,231	7,225	7,240	7,302	7,372
Sciences, total	5,557	5,628	5,731	5,825	5,805	5,800	5,840	5,891
Physical sciences, total	569	573	573	581	575	577	581	581
Astronomy	33	34	34	35	35	35	36	36
Chemistry	273	273	271	271	271	272	271	274
Physics	248	250	252	254	250	253	255	248
Physical sciences, n.e.c.	15	16	16	21	19	17	19	23
Earth, atmos., & ocean sci., total	326	330	339	353	350	352	361	360
Atmospheric sciences	29	31	32	33	33	32	33	32
Geosciences	204	204	208	212	212	209	208	205
Oceanography	45	45	46	50	48	49	54	56
Earth, atmos., & ocean sci., n.e.c.	48	50	53	58	57	62	66	67
Mathematical sciences, total	379	386	393	398	398	396	393	393
Mathematics & applied mathematics	304	309	313	317	316	315	313	313
Statistics	75	77	80	81	82	81	80	80
Computer sciences	260	262	270	281	288	292	299	307
Agricultural sciences	315	312	318	324	318	328	333	327
Biological sciences, total	1,920	1,965	1,992	2,008	1,988	1,959	1,977	1,996
Anatomy	103	102	102	99	98	94	91	89
Biochemistry	190	190	191	193	192	192	192	194
Biology	241	240	239	239	241	248	252	252
Biometry/epidemiology	61	69	71	72	72	71	72	73
Biophysics	33	33	33	33	34	31	31	31
Botany	102	103	104	101	98	95	94	88
Cell biology	106	112	120	123	123	124	137	138
Ecology	28	27	31	31	30	29	30	35
Entomology/parasitology	48	49	49	48	48	48	49	47
Genetics	76	79	82	84	83	82	82	83
Microbio., immunology, & virology	249	260	261	265	264	254	258	264
Nutrition	114	117	122	126	125	123	124	125
Pathology	145	143	143	144	139	138	135	134
Pharmacology	167	168	169	169	164	159	158	162
Physiology	146	146	144	146	144	138	133	133
Zoology	47	50	50	49	45	41	40	40
Biosciences, n.e.c.	64	77	81	86	88	92	99	108
Psychology, total	522	527	543	559	564	571	574	590
Psychology, general	171	168	170	170	167	171	173	176
Clinical psychology	112	115	117	124	128	129	128	130
Psychology, n.e.c.	239	244	256	265	269	271	273	284
Social sciences, total	1,266	1,273	1,303	1,321	1,324	1,325	1,322	1,337
Agricultural economics	54	53	54	55	55	55	55	55
Anthropology (cultural & social)	128	130	132	135	135	138	135	135
Economics (except agricultural)	202	202	205	204	198	198	196	197
Geography	99	99	100	101	99	100	101	101
History and philosophy of science	19	20	21	21	23	23	23	24
Linguistics	70	69	69	70	72	71	70	71
Political science	317	322	328	334	335	337	338	341
Sociology	177	178	179	180	177	174	174	175
Sociology/anthropology	28	25	26	25	25	25	24	24
Social sciences, n.e.c.	172	175	189	196	205	204	206	214
Engineering, total	1,322	1,344	1,380	1,406	1,420	1,440	1,462	1,481
Aerospace engineering	48	50	52	53	52	54	54	56
Agricultural engineering	41	40	38	38	38	38	38	39
Biomedical engineering	56	56	57	59	61	64	72	77
Chemical engineering	141	141	142	142	144	144	144	147
Civil engineering	203	205	215	221	230	234	237	244
Electrical engineering	217	219	226	231	235	238	241	241
Engineering science	37	39	41	39	36	36	38	40
Industrial eng./manufacturing eng.	139	148	157	160	163	164	164	161
Mechanical engineering	185	185	187	189	189	189	190	190
Metallurgical/materials eng.	101	101	104	106	107	112	113	111
Mining engineering	28	30	29	26	24	24	24	24
Nuclear engineering	25	25	26	26	24	23	24	24
Petroleum engineering	20	20	20	21	20	18	17	16
Engineering, n.e.c.	81	85	86	95	97	102	106	111

See explanatory information, if any, and SOURCE at end of table.

**Technical Table 2. Number of science, engineering, and health departments
in doctorate-granting institutions, by detailed field: 1992-1999**

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Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, health fields	2,641	2,736	2,806	2,861	2,881	2,837	2,853	2,893
Medical fields, total	1,963	2,030	2,082	2,120	2,121	2,062	2,061	2,079
Anesthesiology	86	86	88	88	90	89	89	87
Cardiology	68	69	70	71	71	71	71	72
Oncology/cancer research	45	48	50	55	57	61	62	70
Endocrinology	73	72	74	74	74	71	71	72
Gastroenterology	66	68	71	71	71	68	68	68
Hematology	69	71	73	73	72	71	69	72
Neurology	137	145	153	154	151	154	156	163
Obstetrics and gynecology	95	96	96	96	95	90	91	91
Ophthalmology	80	81	81	81	79	79	79	78
Otorhinolaryngology	70	71	72	72	72	68	64	64
Pediatrics	109	111	115	116	118	111	112	110
Preventive medicine/community health	174	178	182	186	187	186	193	196
Psychiatry	101	103	107	107	104	101	100	99
Pulmonary disease	64	67	68	69	68	66	67	66
Radiology	135	137	139	141	138	134	129	131
Surgery	238	246	251	257	259	245	244	246
Clinical medicine, n.e.c.	353	381	392	409	415	397	396	394
Other health fields, total	678	706	724	741	760	775	792	814
Dental sciences	82	86	83	82	81	76	73	74
Nursing	135	139	143	149	147	152	156	157
Pharmaceutical sciences	86	88	89	90	93	91	92	91
Speech pathology/audiology	132	135	137	138	139	141	142	144
Veterinary sciences	42	44	45	46	46	47	48	51
Health related, n.e.c.	201	214	227	236	254	268	281	297

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

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Technical Table 3. Number of science, engineering, and health departments
in master's-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	1,353	1,396	1,449	1,475	1,474	1,513	1,531	1,568
Total, science and engineering fields	1,184	1,220	1,262	1,274	1,261	1,288	1,298	1,315
Sciences, total	1,024	1,057	1,093	1,102	1,096	1,115	1,123	1,135
Physical sciences, total	112	116	117	114	110	114	113	111
Astronomy	0	0	0	0	0	0	0	0
Chemistry	74	74	74	70	68	69	68	68
Physics	29	31	31	31	30	31	31	30
Physical sciences, n.e.c.	9	11	12	13	12	14	14	13
Earth, atmos., & ocean sci., total	52	51	53	59	59	62	63	63
Atmospheric sciences	1	1	1	2	2	2	2	1
Geosciences	28	27	28	29	29	30	30	31
Oceanography	6	6	6	6	5	6	6	7
Earth, atmos., & ocean sci., n.e.c.	17	17	18	22	23	24	25	24
Mathematical sciences, total	97	102	103	103	102	105	104	104
Mathematics & applied mathematics	93	96	97	97	97	100	99	99
Statistics	4	6	6	6	5	5	5	5
Computer sciences	74	80	83	84	85	84	85	90
Agricultural sciences	27	27	33	34	32	31	32	32
Biological sciences, total	169	167	166	170	168	170	170	173
Anatomy	0	0	0	0	0	0	0	0
Biochemistry	2	3	4	4	4	4	4	3
Biology	132	128	126	126	127	127	127	128
Biometry/epidemiology	0	0	0	0	0	0	0	0
Biophysics	0	0	0	0	0	0	0	0
Botany	3	2	2	2	2	2	2	2
Cell biology	0	1	1	2	1	3	3	3
Ecology	3	3	3	3	2	4	4	4
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	1	1	1	1	1	1	1	2
Microbio., immunology, & virology	2	2	2	2	2	3	2	2
Nutrition	10	11	12	14	14	12	13	13
Pathology	2	2	2	2	2	1	1	1
Pharmacology	1	1	0	0	0	0	1	1
Physiology	0	0	0	0	0	0	0	2
Zoology	3	2	2	2	2	2	2	2
Biosciences, n.e.c.	10	11	11	12	11	11	10	10
Psychology, total	214	225	233	230	232	240	239	246
Psychology, general	84	87	87	86	87	88	88	88
Clinical psychology	29	30	34	34	34	36	36	38
Psychology, n.e.c.	101	108	112	110	111	116	115	120
Social sciences, total	279	289	305	308	308	309	317	316
Agricultural economics	2	3	3	3	3	3	3	3
Anthropology (cultural & social)	11	11	11	11	11	12	12	13
Economics (except agricultural)	32	33	33	34	35	35	36	35
Geography	23	23	23	23	23	23	23	24
History and philosophy of science	0	0	0	0	0	0	2	2
Linguistics	7	7	7	7	7	7	7	7
Political science	99	100	107	109	109	107	107	109
Sociology	43	43	44	45	43	45	46	46
Sociology/anthropology	2	2	2	2	2	2	1	1
Social sciences, n.e.c.	60	67	75	74	75	75	80	76
Engineering, total	160	163	169	172	165	173	175	180
Aerospace engineering	2	2	4	4	3	3	3	3
Agricultural engineering	0	0	0	0	0	0	0	0
Biomedical engineering	3	4	4	4	3	4	4	4
Chemical engineering	6	6	6	7	7	7	7	6
Civil engineering	26	27	29	32	32	32	31	30
Electrical engineering	39	39	39	41	41	43	43	46
Engineering science	2	2	2	2	2	2	2	2
Industrial eng./manufacturing eng.	27	27	27	29	27	26	29	30
Mechanical engineering	21	22	22	23	21	22	23	24
Metallurgical/materials eng.	6	6	6	5	4	5	4	5
Mining engineering	4	4	4	2	2	2	2	2
Nuclear engineering	0	0	0	0	0	0	0	0
Petroleum engineering	1	1	1	1	1	1	1	1
Engineering, n.e.c.	23	23	25	22	22	26	26	27

See explanatory information, if any, and SOURCE at end of table.

**Technical Table 3. Number of science, engineering, and health departments
in master's-granting institutions, by detailed field: 1992-1999**

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Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, health fields	169	176	187	201	213	225	233	253
Medical fields, total	10	12	15	16	14	15	17	19
Anesthesiology	2	3	3	3	2	3	3	3
Cardiology	0	0	0	0	0	0	0	0
Oncology/cancer research	0	0	0	0	0	0	0	0
Endocrinology	0	0	0	0	0	0	0	0
Gastroenterology	0	0	0	0	0	0	0	0
Hematology	0	0	0	0	0	0	0	0
Neurology	0	0	0	0	0	0	0	0
Obstetrics and gynecology	0	0	0	0	0	0	0	0
Ophthalmology	0	0	0	0	0	0	0	0
Otorhinolaryngology	0	0	0	0	0	0	0	0
Pediatrics	0	0	0	0	0	0	0	0
Preventive medicine/community health	5	6	7	7	7	7	8	9
Psychiatry	1	1	2	2	1	1	1	1
Pulmonary disease	0	0	0	0	0	0	0	0
Radiology	0	0	0	1	1	1	1	1
Surgery	0	0	0	0	0	0	0	0
Clinical medicine, n.e.c.	2	2	3	3	3	3	4	5
Other health fields, total	159	164	172	185	199	210	216	234
Dental sciences	0	0	0	0	0	0	0	0
Nursing	49	52	55	64	67	71	72	81
Pharmaceutical sciences	2	2	1	1	1	1	2	2
Speech pathology/audiology	55	54	55	57	61	63	65	67
Veterinary sciences	1	1	1	1	1	1	1	1
Health related, n.e.c.	52	55	60	62	69	74	76	83

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 4. Original departmental response rates: 1975-1999

Year	Total	Complete response	Percent	Partial response	Percent	Non-response	Percent
1975	9,162	8,998	98.2	N/A	N/A	N/A	N/A
1976	9,275	9,148	98.6	N/A	N/A	N/A	N/A
1977	9,513	9,432	99.1	N/A	N/A	N/A	N/A
1978 ¹	8,242	8,077	98.0	N/A	N/A	N/A	N/A
1979	9,796	9,446	96.4	N/A	N/A	N/A	N/A
1980	9,930	9,593	96.6	N/A	N/A	N/A	N/A
1981	9,917	8,594	86.7	613	6.2	710	7.2
1982	9,776	8,104	82.9	744	7.6	928	9.5
1983	9,663	8,070	83.5	816	8.4	777	8.0
1984 ²	8,748	7,490	85.6	643	7.4	615	7.0
1985 ²	9,025	7,818	86.6	672	7.4	535	5.9
1986 ²	9,097	7,817	85.9	779	8.6	501	5.5
1987 ²	9,254	8,030	86.8	715	7.7	509	5.5
1988	10,295	8,812	85.6	970	9.4	513	5.0
1989	10,318	8,908	86.3	891	8.6	519	5.0
1990	10,483	8,884	84.7	1,053	10.0	546	5.2
1991	10,705	9,052	84.6	1,186	11.1	467	4.4
1992	10,936	9,066	82.9	1,538	14.1	332	3.0
1993	11,146	9,156	82.1	1,555	14.0	435	3.9
1994	11,411	8,863	77.7	2,109	18.5	439	3.8
1995	11,598	9,514	82.0	1,730	14.9	354	3.1
1996	11,592	9,851	85.0	1,522	13.1	219	1.9
1997	11,597	9,720	83.8	1,665	14.4	212	1.8
1998	11,718	9,822	83.8	1,706	14.6	190	1.6
1999	11,833	9,396	79.4	2,289	19.3	148	1.3

¹ Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

² Master's-granting institutions were surveyed on a sample basis from 1984 through 1987.

NOTE: Departments providing partial responses are included in the complete response column prior to 1981 and reported separately beginning in 1981.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 5. Imputation for nonresponse in doctorate-granting institutions,
by field and enrollment status: 1997-1999

Area of science and engineering	Number of graduate departments		Graduate enrollment								
	In universe	Totally imputed	Total in survey			Number imputed			Imputation rate (percent)		
			Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates
Fall 1999											
Total, all areas	10,265	126	309,466	123,191	40,244	4,392	3,034	540	1.4	2.5	1.3
Engineering	1,481	16	66,083	29,404	3,156	668	633	39	1.0	2.2	1.2
Physical sciences	581	8	26,159	3,328	6,043	328	41	42	1.3	1.2	.7
Earth, atmospheric, & ocean sciences	360	3	10,057	2,754	919	47	1	6	.5	.0	.7
Mathematical sciences	393	6	11,175	3,126	348	110	42	0	1.0	1.3	.0
Computer sciences	307	6	20,186	15,207	326	219	177	0	1.1	1.2	.0
Agricultural sciences	327	4	8,668	2,482	708	178	77	8	2.1	3.1	1.1
Biological sciences	1,996	14	45,442	7,894	15,910	523	178	217	1.2	2.3	1.4
Psychology	590	13	28,615	10,713	703	626	425	10	2.2	4.0	1.4
Social sciences	1,337	23	49,482	23,628	451	660	742	5	1.3	3.1	1.1
Health fields	2,893	33	43,599	24,655	11,680	1,033	718	213	2.4	2.9	1.8
Fall 1998											
Total, all areas	10,155	167	303,095	123,434	39,421	4,628	2,688	758	1.5	2.2	1.9
Engineering	1,462	9	63,627	30,252	2,822	443	334	21	.7	1.1	.7
Physical sciences	581	6	25,909	3,471	5,884	114	8	9	.4	.2	.2
Earth, atmospheric, & ocean sciences	361	6	9,992	2,929	893	135	30	44	1.4	1.0	4.9
Mathematical sciences	393	5	11,129	3,417	274	268	75	4	2.4	2.2	1.5
Computer sciences	299	7	18,070	14,141	365	307	93	8	1.7	.7	2.2
Agricultural sciences	333	4	8,529	2,492	656	88	22	7	1.0	.9	1.1
Biological sciences	1,977	27	45,296	7,770	15,511	991	83	175	2.2	1.1	1.1
Psychology	574	15	28,898	11,104	606	785	310	8	2.7	2.8	1.3
Social sciences	1,322	19	50,027	22,780	388	584	687	0	1.2	3.0	.0
Health fields	2,853	69	41,618	25,078	12,022	913	1,046	482	2.2	4.2	4.0
Fall 1997											
Total, all areas	10,077	177	304,029	125,130	38,105	4,626	3,204	757	1.5	2.6	2.0
Engineering	1,440	21	64,075	31,036	2,947	606	899	20	.9	2.9	.7
Physical sciences	577	7	26,319	3,440	5,856	152	70	8	.6	2.0	.1
Earth, atmospheric, & ocean sciences	352	7	9,987	3,165	934	193	21	30	1.9	.7	3.2
Mathematical sciences	396	7	11,591	3,384	302	144	50	2	1.2	1.5	.7
Computer sciences	292	5	16,761	13,976	316	301	387	0	1.8	2.8	.0
Agricultural sciences	328	1	8,677	2,401	692	30	1	5	.3	.0	.7
Biological sciences	1,959	26	45,232	7,945	14,932	646	108	199	1.4	1.4	1.3
Psychology	571	20	29,356	11,070	567	784	556	1	2.7	5.0	.2
Social sciences	1,325	33	51,792	22,981	362	892	403	3	1.7	1.8	.8
Health fields	2,837	50	40,239	25,732	11,197	878	709	489	2.2	2.8	4.4

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 6. Imputation for nonresponse in master's-granting institutions,
by field and enrollment status: 1997-1999

Area of science and engineering	Number of graduate departments		Graduate enrollment								
	In universe	Totally imputed	Total in survey			Number imputed			Imputation rate (percent)		
			Full-time	Part-time	Postdoc-torates	Full-time	Part-time	Postdoc-torates	Full-time	Part-time	Postdoc-torates
Fall 1999											
Total, all areas	1,568	22	24,939	35,829	102	537	694	0	2.2	1.9	0.0
Engineering	180	0	1,749	4,232	7	0	0	0	.0	.0	.0
Physical sciences	111	2	481	721	64	1	2	0	.2	.3	.0
Earth, atmospheric, & ocean sciences	63	0	435	836	2	0	0	0	.0	.0	.0
Mathematical sciences	104	1	617	1,336	0	5	7	0	.8	.5	.0
Computer sciences	90	0	2,522	4,645	4	0	0	0	.0	.0	.0
Agricultural sciences	32	0	542	344	9	0	0	0	.0	.0	.0
Biological sciences	173	3	1,826	2,158	6	65	33	0	3.6	1.5	.0
Psychology	246	7	6,100	6,446	6	272	265	0	4.5	4.1	.0
Social sciences	316	4	3,776	8,139	0	25	275	0	.7	3.4	.0
Health fields	253	5	6,891	6,972	4	169	112	0	2.5	1.6	.0
Fall 1998											
Total, all areas	1,531	20	24,352	34,843	118	424	549	28	1.7	1.6	23.7
Engineering	175	0	1,704	4,386	6	0	0	0	.0	.0	.0
Physical sciences	113	2	481	710	80	15	21	28	3.1	3.0	35.0
Earth, atmospheric, & ocean sciences	63	1	453	885	4	3	8	0	.7	.9	.0
Mathematical sciences	104	1	622	1,320	0	1	0	0	.2	.0	.0
Computer sciences	85	1	1,902	3,914	3	8	6	0	.4	.2	.0
Agricultural sciences	32	0	486	370	10	0	0	0	.0	.0	.0
Biological sciences	170	0	1,809	2,249	6	0	0	0	.0	.0	.0
Psychology	239	6	6,250	6,305	6	282	321	0	4.5	5.1	.0
Social sciences	317	8	3,795	7,429	1	102	147	0	2.7	2.0	.0
Health fields	233	1	6,850	7,275	2	13	46	0	.2	.6	.0
Fall 1997											
Total, all areas	1,513	32	23,281	34,839	111	1,063	659	0	4.6	1.9	0.0
Engineering	173	5	1,501	4,458	4	81	95	0	5.4	2.1	.0
Physical sciences	114	0	546	773	71	0	0	0	.0	.0	.0
Earth, atmospheric, & ocean sciences	62	2	540	873	4	18	6	0	3.3	.7	.0
Mathematical sciences	105	0	553	1,201	2	0	0	0	.0	.0	.0
Computer sciences	84	4	1,574	3,680	2	159	128	0	10.1	3.5	.0
Agricultural sciences	31	0	456	359	9	0	0	0	.0	.0	.0
Biological sciences	170	0	1,779	2,184	8	0	0	0	.0	.0	.0
Psychology	240	7	6,195	6,505	7	569	249	0	9.2	3.8	.0
Social sciences	309	12	3,743	7,548	0	218	174	0	5.8	2.3	.0
Health fields	225	2	6,394	7,258	4	18	7	0	.3	.1	.0

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Technical Table 7. Imputation rates for all departments
at all graduate institutions: fall 1999**

[Number of imputed departments = 2,280]

Item 5 Enrollment status, mechanism of support, and gender of S&E graduate students	Students receiving financial assistance										Self support (includ. loans & family sources) (K)	Total for all sources (sum of columns A - K) (L)
	Federal sources (excluding loans)						Non-Federal sources					
	DoD (A)	HHS		NSF (D)	Dept. of Agr. (E)	NASA (F)	Other Federal sources (G)	Inst. support (H)	Foreign sources (I)	Other U.S. sources (J)		
		NIH (B)	Other HHS (C)									
Full-time graduate S&E students:												
Graduate fellowships	16.5	16.4	32.6	10.6	3.4	9.6	8.1	15.6	13.3	19.5	N/A	15.0
Graduate traineeships	26.3	10.4	20.5	16.8	20.0	0.0	12.7	9.7	15.6	21.3	N/A	12.9
Graduate research assistants	17.7	11.2	6.7	15.6	13.2	14.4	14.2	13.5	5.6	14.8	N/A	13.2
Graduate teaching assistants	N/A	18.1	14.9	26.0	28.3	0.0	17.5	15.9	N/A	22.4	N/A	15.0
Other types of support	71.7	18.9	16.7	14.6	12.1	2.6	13.4	18.5	14.3	22.2	24.2	23.3
Full-time total	29.4	11.7	17.9	14.8	13.0	13.2	13.3	15.3	12.6	17.3	24.2	1.5
Full-time women	23.2	11.9	20.8	12.7	13.6	12.0	13.9	17.0	11.2	17.9	26.9	4.8

Items 6 and 7 Race/ethnicity of part-time and full-time graduate S&E students, by sex	U.S. citizens and permanent residents								Foreign (H)	Total (sum of columns A - H) (I)
	Black non- Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non- Hispanic (E)	Other (F)	Unknown (G)			
Part-time, total	7.5	5.5	5.6	9.7	10.3	60.0	6.7	8.8		2.5
Men enrolled part-time	7.2	5.2	5.4	8.5	10.2	68.2	6.1	8.3		5.7
Women enrolled part-time	7.7	5.8	5.9	10.8	10.4	51.6	7.3	9.8		6.4
Full-time, total	7.0	4.6	7.7	10.2	7.8	44.2	4.5	6.0		1.5
Men enrolled full-time	8.6	5.7	5.8	13.1	9.2	40.7	6.1	7.0		4.4
Women enrolled full-time	7.5	6.5	9.9	10.8	9.5	47.0	7.8	7.5		4.8
Full-time first-time total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		5.3
Full-time first-time women	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		6.5

Item 8 S&E postdoctorates and nonfaculty research staff with doctorates	Postdoctorates						Other non- faculty research staff with doc- torates (G)	
	Source of support					Total for all sources (A - D) (E)		Foreign postdoc- torates (F)
	Federal			Non- Federal (D)				
	Fellow- ships (A)	Trainee- ships (B)	Research grants (C)					
Total	17.4	8.8	8.5	10.2	2.0	4.7	4.4	
Women	16.7	8.5	8.5	10.0	4.8	3.8	4.3	
With MD, DDS or DVM degrees	33.7	8.9	8.1	10.0	5.4	4.7	4.1	

KEY: N/A = not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Technical Table 8. Comparison of graduate enrollment data as originally published and as modified through the fall 1999 graduate student survey cycle: 1975-1999

Year	Total, all institutions			Doctorate-granting institutions			Master's-granting institutions		
	Original total	Revised total	Percent change	Original total	Revised total	Percent change	Original total	Revised total	Percent change
Total graduate enrollment in surveyed fields									
1975 ¹	336,843	328,550	-2.5	290,662	296,384	2.0	46,181	32,166	-30.3
1976	345,979	333,755	-3.5	297,280	300,794	1.2	48,699	32,961	-32.3
1977	362,978	345,416	-4.8	306,710	309,338	.9	56,268	36,078	-35.9
1978 ²	N/A	339,912	N/A	311,982	302,370	-3.1	N/A	37,542	N/A
1979	375,267	357,609	-4.7	321,770	318,683	-1.0	53,497	38,926	-27.2
1980	383,210	367,111	-4.2	333,658	328,330	-1.6	49,552	38,781	-21.7
1981	392,034	375,158	-4.3	340,203	334,983	-1.5	51,831	40,175	-22.5
1982	399,682	382,334	-4.3	347,414	341,216	-1.8	52,268	41,118	-21.3
1983	413,564	390,474	-5.6	358,276	348,167	-2.8	55,288	42,307	-23.5
1984 ³	415,064	394,670	-4.9	363,470	349,519	-3.8	51,594	45,151	-12.5
1985 ³	434,836	404,021	-7.1	371,052	358,773	-3.3	63,784	45,248	-29.1
1986 ³	446,102	415,520	-6.9	384,203	369,370	-3.9	61,899	46,150	-25.4
1987 ³	449,585	421,497	-6.2	388,681	375,011	-3.5	60,904	46,486	-23.7
1988	445,595	424,592	-4.7	391,683	381,769	-2.5	53,912	42,823	-20.6
1989	440,983	434,552	-1.5	385,025	389,322	1.1	55,958	45,230	-19.2
1990	458,943	452,171	-1.5	398,405	403,335	1.2	60,538	48,836	-19.3
1991	475,691	471,284	-.9	411,296	418,833	1.8	64,395	52,451	-18.5
1992	495,397	493,624	-.4	427,792	438,109	2.4	67,605	55,515	-17.9
1993	506,678	504,409	-.4	440,875	446,383	1.2	65,803	58,026	-11.8
1994	506,626	504,516	-.4	441,480	447,058	1.3	65,146	57,458	-11.8
1995	501,510	499,750	-.4	436,328	441,360	1.2	65,182	58,390	-10.4
1996	494,526	494,195	-.1	430,631	435,959	1.2	63,895	58,236	-8.9
1997	487,104	487,279	.0	424,650	429,159	1.1	62,454	58,120	-6.9
1998	485,754	485,724	.0	422,834	426,529	.9	62,920	59,195	-5.9
1999	493,425	N/A	N/A	432,657	N/A	N/A	60,768	N/A	N/A
Full-time									
1975 ¹	228,316	219,687	-3.8	210,641	207,930	-1.3	17,675	11,757	-33.5
1976	233,748	223,446	-4.4	215,355	211,767	-1.7	18,393	11,679	-36.5
1977	238,202	226,776	-4.8	218,226	214,199	-1.8	19,976	12,577	-37.0
1978 ²	N/A	223,030	N/A	217,588	209,946	-3.5	N/A	13,084	N/A
1979	243,331	231,790	-4.7	224,057	218,215	-2.6	19,274	13,575	-29.6
1980	249,111	238,448	-4.3	230,601	224,393	-2.7	18,510	14,055	-24.1
1981	253,428	242,076	-4.5	234,529	228,198	-2.7	18,899	13,878	-26.6
1982	255,959	244,796	-4.4	237,676	231,193	-2.7	18,283	13,603	-25.6
1983	263,800	252,055	-4.5	243,646	237,166	-2.7	20,154	14,889	-26.1
1984 ³	264,146	253,922	-3.9	246,848	237,844	-3.6	17,298	16,078	-7.1
1985 ³	269,319	257,287	-4.5	249,666	241,421	-3.3	19,653	15,866	-19.3
1986 ³	279,235	266,168	-4.7	259,980	250,041	-3.8	19,255	16,127	-16.2
1987 ³	285,200	271,056	-5.0	264,862	254,671	-3.8	20,338	16,385	-19.4
1988	288,619	275,185	-4.7	268,385	260,490	-2.9	20,234	14,695	-27.4
1989	286,619	282,711	-1.4	267,554	267,672	.0	19,065	15,039	-21.1
1990	295,836	292,823	-1.0	275,262	276,472	.4	20,574	16,351	-20.5
1991	308,669	307,055	-.5	286,756	289,084	.8	21,913	17,971	-18.0
1992	323,399	322,609	-.2	299,753	303,305	1.2	23,646	19,304	-18.4
1993	330,249	329,701	-.2	307,181	309,429	.7	23,068	20,272	-12.1
1994	331,969	332,149	.1	307,964	311,064	1.0	24,005	21,085	-12.2
1995	330,235	329,356	-.3	305,652	307,446	.6	24,583	21,910	-10.9
1996	328,368	328,628	.1	303,586	306,225	.9	24,782	22,403	-9.6
1997	326,842	327,310	.1	301,573	304,029	.8	25,269	23,281	-7.9
1998	327,609	327,447	.0	301,544	303,095	.5	26,065	24,352	-6.6
1999	334,405	N/A	N/A	309,466	N/A	N/A	24,939	N/A	N/A

See explanatory information, if any, and SOURCE at end of table.

Technical Table 8. Comparison of graduate enrollment data as originally published and as modified through the fall 1999 graduate student survey cycle: 1975-1999

Year	Total, all institutions			Doctorate-granting institutions			Master's-granting institutions		
	Original total	Revised total	Percent change	Original total	Revised total	Percent change	Original total	Revised total	Percent change
	Part-time								
1975 ¹	108,527	108,863	0.3	80,021	88,454	10.5	28,506	20,409	-28.4
1976	112,231	110,309	-1.7	81,925	89,027	8.7	30,306	21,282	-29.8
1977	124,776	118,640	-4.9	88,484	95,139	7.5	36,292	23,501	-35.2
1978 ²	N/A	116,882	N/A	94,394	92,424	-2.1	N/A	24,458	N/A
1979	131,936	125,819	-4.6	97,713	100,468	2.8	34,223	25,351	-25.9
1980	134,099	128,663	-4.1	103,057	103,937	.9	31,042	24,726	-20.3
1981	138,606	133,082	-4.0	105,674	106,785	1.1	32,932	26,297	-20.1
1982	143,723	137,538	-4.3	109,738	110,023	.3	33,985	27,515	-19.0
1983	149,764	138,419	-7.6	114,630	111,001	-3.2	35,134	27,418	-22.0
1984 ³	150,918	140,748	-6.7	116,622	111,675	-4.2	34,296	29,073	-15.2
1985 ³	165,517	146,734	-11.3	121,386	117,352	-3.3	44,131	29,382	-33.4
1986 ³	166,867	149,352	-10.5	124,223	119,329	-3.9	42,644	30,023	-29.6
1987 ³	164,385	150,441	-8.5	123,819	120,340	-2.8	40,566	30,101	-25.8
1988	156,976	149,407	-4.8	123,298	121,279	-1.6	33,678	28,128	-16.5
1989	154,364	151,841	-1.6	117,471	121,650	3.6	36,893	30,191	-18.2
1990	163,107	159,348	-2.3	123,143	126,863	3.0	39,964	32,485	-18.7
1991	167,022	164,229	-1.7	124,540	129,749	4.2	42,482	34,480	-18.8
1992	171,998	171,015	-.6	128,039	134,804	5.3	43,959	36,211	-17.6
1993	176,429	174,708	-1.0	133,694	136,954	2.4	42,735	37,754	-11.7
1994	174,657	172,367	-1.3	133,516	135,994	1.9	41,141	36,373	-11.6
1995	171,275	170,394	-.5	130,676	133,914	2.5	40,599	36,480	-10.1
1996	166,158	165,567	-.4	127,045	129,734	2.1	39,113	35,833	-8.4
1997	160,262	159,969	-.2	123,077	125,130	1.7	37,185	34,839	-6.3
1998	158,145	158,277	.1	121,290	123,434	1.8	36,855	34,843	-5.5
1999	159,020	N/A	N/A	123,191	N/A	N/A	35,829	N/A	N/A

¹ The 1976 survey also collected 1975 data from master's-granting institutions.

² Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

³ These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984 through 1987. See "Technical Notes" for further information.

NOTE: The percent change column is presented as a measure of retroactive changes in survey definitions. Three survey changes in the late 1980s and early 1990s had a retroactive effect on figures reported for earlier years. First, degree-granting status (doctorate or master's) used to be determined by an institution's status each year. Beginning in 1992, degree-granting status was determined by the status reported in the latest survey year. This change shifted numerous institutions (and students) from master's-granting to doctorate-granting categories for years before 1992. Second, in 1988 guidelines to determine S&E departments were tightened. This change meant retroactively dropping departments in fields like educational psychology, social work, and cultural studies from the survey population. Third, improved estimates were generated for years in which enrollments at master's-granting institutions were sampled (1984-1987).

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

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Table 1. Total enrollment in all institutions of higher education, by level of enrollment, broad field, and location, by selected years: 1975-1999

Year	Total	Under-graduate enrollment	Graduate enrollment					First professional enrollment
			Total, all fields	Sciences	Engineering	Health fields	All other fields	
Total, all U.S. institutions								
1975	11,289,129	9,777,634	1,267,537	234,760	68,271	25,519	938,987	243,958
1980	12,234,644	10,603,579	1,351,268	251,337	74,312	41,462	984,157	279,797
1985 ¹	12,411,945	10,749,752	1,384,862	262,068	95,991	45,962	980,841	277,331
1990	13,983,255	12,110,847	1,596,037	289,503	107,625	55,043	1,143,866	276,371
1991	14,527,724	12,595,335	1,648,952	299,185	113,505	58,594	1,177,668	283,437
1992	14,657,118	12,693,778	1,679,644	312,632	118,003	62,989	1,186,020	283,696
1993	14,477,792	12,482,813	1,699,292	319,035	116,834	68,540	1,194,883	295,687
1994	14,449,476	12,417,701	1,734,371	318,240	112,993	73,283	1,229,855	297,404
1995	14,445,438	12,399,826	1,745,130	315,360	107,173	77,217	1,245,380	300,482
1996	14,481,915	12,424,570	1,756,474	312,069	103,189	78,937	1,262,279	300,871
1997	14,521,994	12,458,456	1,763,956	306,586	101,070	79,623	1,276,677	299,582
1998	N/A	N/A	N/A	304,934	99,969	80,821	N/A	N/A
1999	N/A	N/A	N/A	309,840	101,468	82,117	N/A	N/A
Subtotal, 50 States and DC								
1975	11,184,859	9,679,455	1,263,137	233,885	68,217	25,173	935,862	242,267
1980	12,096,895	10,475,055	1,344,073	249,839	74,264	41,126	978,844	277,767
1985 ¹	12,247,055	10,596,674	1,376,181	260,170	95,889	45,410	974,712	274,200
1990	13,818,637	11,959,106	1,586,165	287,833	107,516	54,447	1,136,369	273,366
1991	14,358,953	12,439,287	1,639,135	297,380	113,337	57,965	1,170,453	280,531
1992	14,487,359	12,537,700	1,668,737	310,818	117,793	62,253	1,177,873	280,922
1993	14,304,803	12,323,959	1,688,413	317,175	116,621	67,801	1,186,816	292,431
1994	14,278,790	12,262,608	1,721,469	316,356	112,796	72,509	1,219,808	294,713
1995	14,261,781	12,231,719	1,732,470	313,336	106,956	76,323	1,235,855	297,592
1996	14,300,255	12,259,417	1,743,099	310,060	102,935	78,121	1,251,983	297,739
1997	14,345,416	12,298,256	1,750,628	304,546	100,787	79,039	1,266,256	296,532
1998	N/A	N/A	N/A	302,660	99,702	80,243	N/A	N/A
1999	N/A	N/A	N/A	307,398	101,222	81,334	N/A	N/A
Outlying areas								
1975	104,270	98,179	4,400	875	54	346	3,125	1,691
1980	137,749	128,524	7,195	1,498	48	336	5,313	2,030
1985 ¹	164,890	153,078	8,681	1,898	102	552	6,129	3,131
1990	164,618	151,741	9,872	1,670	109	596	7,497	3,005
1991	168,771	156,048	9,817	1,805	168	629	7,215	2,906
1992	169,759	156,078	10,907	1,814	210	736	8,147	2,774
1993	172,989	158,854	10,879	1,860	213	739	8,067	3,256
1994	170,686	155,093	12,902	1,884	197	774	10,047	2,691
1995	183,657	168,107	12,660	2,024	217	894	9,525	2,890
1996	181,660	165,153	13,375	2,009	254	816	10,296	3,132
1997	176,578	160,200	13,328	2,040	283	584	10,421	3,050
1998	N/A	N/A	N/A	2,274	267	578	N/A	N/A
1999	N/A	N/A	N/A	2,442	246	783	N/A	N/A

¹ NSF figures for 1985 include estimates for master's-granting institutions.

KEY: N/A = Not applicable

SOURCES: U.S. Department of Education/National Center for Education Statistics, Survey of Opening Fall Enrollment, and National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering.

Table 2. Graduate students in science, engineering, and health fields in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975	303,031	234,760	26,310	12,079	16,892	8,415	10,702	46,398	36,191	77,773	
1976	305,465	238,808	26,631	12,819	17,071	8,627	11,285	47,728	37,458	77,189	
1977	311,741	243,056	26,855	13,455	16,052	9,108	11,677	49,234	36,617	78,058	
1978 ¹	304,301	236,604	26,274	13,276	14,812	9,847	11,869	47,923	37,522	75,081	
1979	319,092	247,364	26,695	13,737	15,031	11,690	12,240	48,199	39,766	80,006	
1980	325,649	251,337	26,934	14,051	15,311	13,578	12,452	47,596	40,810	80,805	
1981	332,041	252,486	27,357	14,266	15,881	16,437	12,355	46,639	40,666	78,885	
1982	338,916	255,229	28,186	15,020	17,157	19,812	12,583	45,970	40,073	76,428	
1983	347,017	255,898	29,453	15,453	17,358	23,333	12,429	45,644	40,905	71,323	
1984 ²	349,698	256,986	30,056	15,505	17,443	25,526	12,226	45,763	40,931	69,536	
1985 ²	358,059	262,068	30,981	15,420	17,563	29,769	11,561	46,112	40,721	69,941	
1986 ²	368,082	266,208	32,246	15,066	17,949	31,349	11,458	46,764	41,241	70,135	
1987 ²	373,326	269,373	32,727	14,371	18,508	32,051	11,118	46,747	42,612	71,239	
1988	375,256	272,427	32,962	13,867	19,077	32,227	11,135	47,565	43,963	71,631	
1989	382,732	278,689	33,616	13,643	19,247	32,482	11,190	48,852	45,528	74,131	
1990	397,128	289,503	34,075	13,984	19,774	34,257	11,316	49,989	48,167	77,941	
1991	412,690	299,185	34,710	14,480	19,952	34,681	11,506	51,778	51,343	80,735	
1992	430,635	312,632	35,348	15,333	20,355	36,325	11,841	54,180	53,484	85,766	
1993	435,869	319,035	35,318	15,731	20,000	36,213	11,988	56,458	54,557	88,770	
1994	431,233	318,240	34,449	15,968	19,579	34,158	12,273	58,152	54,554	89,107	
1995	422,533	315,360	33,388	15,722	18,509	33,458	12,450	58,775	53,541	89,417	
1996	415,258	312,069	32,324	15,185	18,015	34,626	12,009	58,170	53,122	88,618	
1997	407,656	306,586	31,078	14,565	16,729	35,991	11,893	57,140	53,126	86,064	
1998	404,903	304,934	30,571	14,259	16,488	38,027	11,877	57,124	52,557	84,031	
1999	411,308	309,840	30,689	14,082	16,254	42,560	12,036	57,320	51,874	85,025	
		Engineering									
		Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering	Health fields
1975	68,271	1,670	5,034	12,560	16,320	11,663	8,601	2,352	10,071	25,519	
1976	66,657	1,477	5,205	11,995	15,926	10,687	8,313	2,375	10,679	28,290	
1977	68,685	1,518	5,201	12,335	17,406	10,438	8,722	2,559	10,506	33,675	
1978 ¹	67,697	1,463	5,341	12,358	17,127	9,494	8,638	2,570	10,706	35,611	
1979	71,728	1,481	5,605	12,822	17,715	10,729	9,251	2,756	11,369	38,517	
1980	74,312	1,737	6,015	13,097	19,132	9,698	9,888	2,910	11,835	41,462	
1981	79,555	1,883	6,496	14,089	20,113	9,737	10,618	3,125	13,494	43,117	
1982	83,687	1,941	7,189	14,122	21,927	9,577	11,467	3,124	14,340	43,418	
1983	91,119	2,305	7,563	14,910	25,295	9,247	12,911	3,447	15,441	43,457	
1984 ²	92,712	2,340	7,373	15,192	26,388	9,282	13,855	3,657	14,625	44,972	
1985 ²	95,991	2,538	7,150	14,902	28,203	10,499	14,157	3,943	14,599	45,962	
1986 ²	101,874	2,804	7,012	14,976	29,969	11,529	15,713	4,208	15,663	47,438	
1987 ²	103,953	3,015	7,111	14,682	31,399	12,220	16,366	4,366	14,794	48,171	
1988	102,829	3,223	6,618	14,811	32,035	11,393	16,151	4,337	14,261	49,336	
1989	104,043	3,524	6,460	14,909	33,257	11,094	16,265	4,594	13,940	51,820	
1990	107,625	3,934	6,735	15,542	33,722	11,248	16,879	4,941	14,624	55,043	
1991	113,505	4,120	7,127	17,398	35,111	12,676	17,730	5,160	14,183	58,594	
1992	118,003	4,036	7,397	19,572	36,428	13,525	18,637	5,512	12,896	62,989	
1993	116,834	3,940	7,516	19,583	35,290	13,596	18,477	5,363	13,069	68,540	
1994	112,993	3,715	7,608	19,925	33,020	13,661	17,761	5,191	12,112	73,283	
1995	107,173	3,343	7,424	19,218	30,721	13,143	16,363	4,920	12,041	77,217	
1996	103,189	3,208	7,373	18,528	29,702	12,399	15,509	4,713	11,757	78,937	
1997	101,070	3,083	7,247	17,156	30,548	11,736	15,045	4,649	11,606	79,623	
1998	99,969	3,137	7,060	16,481	31,129	10,995	14,696	4,644	11,827	80,821	
1999	101,468	3,349	6,849	16,190	31,368	10,886	14,956	4,451	13,419	82,117	

1 Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

2 These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 3. Male graduate students in science, engineering, and health fields in all institutions;
by field: 1975-1999

Year	Total, science and engineering	Sciences									
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1977	233,818	168,833	22,816	11,176	11,933	7,549	9,570	32,511	20,518	52,760	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	229,812	163,960	22,202	10,850	11,009	9,367	9,575	30,318	19,424	51,215	
1980	231,253	163,280	22,338	10,844	11,247	10,491	9,594	29,295	19,027	50,444	
1981	232,193	160,384	22,348	10,848	11,400	12,228	9,533	27,992	17,900	48,135	
1982	235,340	160,428	22,767	11,297	12,079	14,366	9,498	26,797	16,976	46,648	
1983	240,498	159,186	23,576	11,552	12,158	16,719	9,290	26,293	16,648	42,950	
1984 ²	242,152	159,737	23,898	11,632	12,275	18,653	9,088	26,246	16,180	41,765	
1985 ²	247,421	162,510	24,474	11,493	12,209	22,208	8,570	26,208	15,597	41,751	
1986 ²	253,684	164,175	25,384	11,119	12,470	23,497	8,505	26,293	15,377	41,530	
1987 ²	256,146	165,156	25,613	10,592	12,912	24,036	8,166	26,314	15,683	41,840	
1988	253,998	164,293	25,465	10,062	13,301	24,033	8,038	26,304	15,502	41,588	
1989	256,844	166,401	25,815	9,785	13,262	24,494	8,045	26,618	15,673	42,709	
1990	263,391	170,438	26,007	9,865	13,575	26,058	7,981	26,947	15,822	44,183	
1991	271,843	174,033	26,146	10,025	13,654	26,391	7,939	27,643	16,556	45,679	
1992	280,396	179,610	26,504	10,482	13,806	27,854	8,066	28,705	16,650	47,543	
1993	279,285	180,134	26,116	10,701	13,362	27,782	7,870	29,402	16,567	48,334	
1994	272,116	177,170	25,290	10,645	13,044	26,071	7,955	29,991	16,416	47,758	
1995	262,332	173,166	24,308	10,286	12,248	25,325	7,985	29,913	15,877	47,224	
1996	253,597	168,653	23,282	9,737	11,794	25,829	7,551	29,387	15,375	45,698	
1997	245,629	163,293	22,237	9,146	10,857	26,110	7,321	28,510	15,507	43,605	
1998	241,458	160,496	21,820	8,690	10,499	27,225	7,152	28,028	15,095	41,987	
1999	242,840	161,215	21,784	8,362	10,213	29,990	7,121	27,560	14,497	41,688	
		Engineering									
		Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering	Health fields
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1977	64,985	1,485	4,827	11,507	16,696	9,683	8,449	2,376	9,962	11,109	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	65,852	1,432	4,991	11,503	16,782	9,473	8,782	2,468	10,421	11,028	
1980	67,973	1,663	5,336	11,732	18,149	8,343	9,354	2,607	10,789	11,707	
1981	71,809	1,816	5,718	12,515	18,837	8,194	9,987	2,735	12,007	11,367	
1982	74,912	1,831	6,288	12,373	20,376	7,958	10,748	2,704	12,634	10,958	
1983	81,312	2,182	6,547	13,051	23,227	7,729	12,106	2,999	13,471	10,430	
1984 ²	82,415	2,208	6,401	13,165	24,175	7,674	12,899	3,189	12,704	10,501	
1985 ²	84,911	2,375	6,146	12,755	25,768	8,719	13,146	3,340	12,662	10,795	
1986 ²	89,509	2,604	5,973	12,829	27,061	9,434	14,554	3,533	13,521	11,049	
1987 ²	90,990	2,791	5,957	12,579	28,301	9,976	15,070	3,637	12,679	11,795	
1988	89,705	2,996	5,543	12,517	28,757	9,300	14,749	3,581	12,262	11,407	
1989	90,443	3,281	5,431	12,474	29,742	8,984	14,867	3,784	11,880	11,884	
1990	92,953	3,645	5,589	12,853	30,007	9,111	15,437	4,048	12,263	12,284	
1991	97,810	3,793	5,870	14,296	31,260	10,321	16,219	4,173	11,878	13,054	
1992	100,786	3,688	6,003	15,918	32,151	10,870	16,939	4,443	10,774	13,829	
1993	99,151	3,583	6,017	15,725	30,977	11,003	16,703	4,336	10,807	15,196	
1994	94,946	3,357	6,082	15,714	28,918	10,866	15,938	4,122	9,949	16,244	
1995	89,166	2,992	5,863	14,986	26,633	10,388	14,686	3,861	9,757	16,979	
1996	84,944	2,856	5,731	14,228	25,580	9,685	13,873	3,653	9,338	18,068	
1997	82,336	2,712	5,538	12,967	26,110	9,125	13,266	3,555	9,063	18,810	
1998	80,962	2,755	5,339	12,354	26,382	8,588	12,934	3,529	9,081	19,504	
1999	81,625	2,926	5,123	12,010	26,402	8,463	13,169	3,379	10,153	19,852	

1 Master's-granting institutions were not surveyed in 1978.

2 These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 4. Female graduate students in science, engineering, and health fields in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1977	77,923	74,223	4,039	2,279	4,119	1,559	2,107	16,723	18,099	25,298	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	89,280	83,404	4,493	2,887	4,022	2,323	2,665	17,881	20,342	28,791	
1980	94,396	88,057	4,596	3,207	4,064	3,087	2,858	18,301	21,583	30,361	
1981	99,848	92,102	5,009	3,418	4,481	4,209	2,822	18,647	22,766	30,750	
1982	103,576	94,801	5,419	3,723	5,078	5,446	3,085	19,173	23,097	29,780	
1983	106,519	96,712	5,877	3,901	5,200	6,614	3,139	19,351	24,257	28,373	
1984 ²	107,546	97,249	6,158	3,873	5,168	6,873	3,138	19,517	24,751	27,771	
1985 ²	110,638	99,558	6,507	3,927	5,354	7,561	2,991	19,904	25,124	28,190	
1986 ²	114,398	102,033	6,862	3,947	5,479	7,852	2,953	20,471	25,864	28,605	
1987 ²	117,180	104,217	7,114	3,779	5,596	8,015	2,952	20,433	26,929	29,399	
1988	121,258	108,134	7,497	3,805	5,776	8,194	3,097	21,261	28,461	30,043	
1989	125,888	112,288	7,801	3,858	5,985	7,988	3,145	22,234	29,855	31,422	
1990	133,737	119,065	8,068	4,119	6,199	8,199	3,335	23,042	32,345	33,758	
1991	140,847	125,152	8,564	4,455	6,298	8,290	3,567	24,135	34,787	35,056	
1992	150,239	133,022	8,844	4,851	6,549	8,471	3,775	25,475	36,834	38,223	
1993	156,584	138,901	9,202	5,030	6,638	8,431	4,118	27,056	37,990	40,436	
1994	159,117	141,070	9,159	5,323	6,535	8,087	4,318	28,161	38,138	41,349	
1995	160,201	142,194	9,080	5,436	6,261	8,133	4,465	28,862	37,764	42,193	
1996	161,661	143,416	9,042	5,448	6,221	8,797	4,458	28,783	37,747	42,920	
1997	162,027	143,293	8,841	5,419	5,872	9,881	4,572	28,630	37,619	42,459	
1998	163,445	144,438	8,751	5,569	5,989	10,802	4,725	29,096	37,462	42,044	
1999	168,468	148,625	8,905	5,720	6,041	12,570	4,915	29,760	37,377	43,337	
Engineering											
Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering			
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1977	3,700	33	374	828	710	755	273	183	544	22,566	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	5,876	49	614	1,319	933	1,256	469	288	948	27,489	
1980	6,339	74	679	1,365	983	1,355	534	303	1,046	29,755	
1981	7,746	67	778	1,574	1,276	1,543	631	390	1,487	31,750	
1982	8,775	110	901	1,749	1,551	1,619	719	420	1,706	32,460	
1983	9,807	123	1,016	1,859	2,068	1,518	805	448	1,970	33,027	
1984 ²	10,297	132	972	2,027	2,213	1,608	956	468	1,921	34,471	
1985 ²	11,080	163	1,004	2,147	2,435	1,780	1,011	603	1,937	35,167	
1986 ²	12,365	200	1,039	2,147	2,908	2,095	1,159	675	2,142	36,389	
1987 ²	12,963	224	1,154	2,103	3,098	2,244	1,296	729	2,115	36,376	
1988	13,124	227	1,075	2,294	3,278	2,093	1,402	756	1,999	37,929	
1989	13,600	243	1,029	2,435	3,515	2,110	1,398	810	2,060	39,936	
1990	14,672	289	1,146	2,689	3,715	2,137	1,442	893	2,361	42,759	
1991	15,695	327	1,257	3,102	3,851	2,355	1,511	987	2,305	45,540	
1992	17,217	348	1,394	3,654	4,277	2,655	1,698	1,069	2,122	49,160	
1993	17,683	357	1,499	3,858	4,313	2,593	1,774	1,027	2,262	53,344	
1994	18,047	358	1,526	4,211	4,102	2,795	1,823	1,069	2,163	57,039	
1995	18,007	351	1,561	4,232	4,088	2,755	1,677	1,059	2,284	60,238	
1996	18,245	352	1,642	4,300	4,122	2,714	1,636	1,060	2,419	60,869	
1997	18,734	371	1,709	4,189	4,438	2,611	1,779	1,094	2,543	60,813	
1998	19,007	382	1,721	4,127	4,747	2,407	1,762	1,115	2,746	61,317	
1999	19,843	423	1,726	4,180	4,966	2,423	1,787	1,072	3,266	62,265	

¹ Master's-granting institutions were not surveyed in 1978.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 5. Full-time graduate students in science, engineering; and health fields
in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975	202,300	164,538	21,916	9,557	10,694	4,473	8,889	36,874	24,105	48,030	
1976	204,861	167,979	22,252	10,091	10,952	4,748	9,436	37,905	25,643	46,952	
1977	206,452	169,296	22,505	10,424	10,365	4,604	9,711	38,415	25,703	47,569	
1978 ¹	201,782	164,277	22,135	10,369	9,769	4,930	9,727	37,788	24,754	44,805	
1979	209,044	169,077	22,535	10,625	9,667	5,853	9,952	37,996	25,848	46,601	
1980	214,465	171,838	22,917	10,871	9,901	6,587	10,168	37,690	26,671	47,033	
1981	218,003	172,278	23,307	10,934	10,152	7,445	10,312	37,277	26,570	46,281	
1982	221,921	172,166	24,038	11,319	10,813	9,171	10,136	36,688	25,667	44,334	
1983	229,456	175,548	25,204	11,968	10,955	10,600	9,976	36,740	26,561	43,544	
1984 ²	231,015	175,848	25,852	11,734	11,309	11,436	9,908	37,114	25,969	42,526	
1985 ²	233,992	178,096	26,669	11,334	11,816	13,861	9,250	37,001	25,335	42,830	
1986 ²	242,812	182,646	27,762	11,249	12,388	15,020	9,341	37,809	26,255	42,822	
1987 ²	247,195	185,263	28,412	10,435	13,043	15,336	9,094	38,235	27,256	43,452	
1988	250,648	187,641	28,574	10,192	13,512	15,133	9,122	39,209	28,118	43,781	
1989	256,898	192,523	29,207	10,021	13,681	15,606	9,070	40,348	29,348	45,242	
1990	265,392	199,415	29,485	10,244	13,865	16,689	9,100	40,945	30,818	48,469	
1991	277,167	206,163	30,117	10,373	14,256	16,546	9,289	42,700	32,258	50,624	
1992	290,501	216,094	30,673	10,984	14,679	17,505	9,454	44,392	34,162	54,245	
1993	294,022	220,252	30,611	11,351	14,530	17,401	9,484	46,487	34,782	55,606	
1994	293,040	221,501	30,043	11,452	14,226	16,701	9,510	48,026	35,288	56,255	
1995	287,245	219,491	28,876	11,262	13,410	16,510	9,633	48,366	35,222	56,212	
1996	284,131	218,302	27,929	10,797	12,966	17,195	9,327	47,782	35,412	56,894	
1997	280,677	215,101	26,865	10,527	12,144	18,335	9,133	47,011	35,551	55,535	
1998	278,979	213,648	26,390	10,445	11,751	19,972	9,015	47,105	35,148	53,822	
1999	283,915	216,083	26,640	10,492	11,792	22,708	9,210	47,268	34,715	53,258	
		Engineering									
		Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering	Health fields
1975		37,762	1,245	3,515	7,363	8,278	4,152	4,931	1,787	6,491	17,387
1976		36,882	1,165	3,691	7,025	8,147	3,578	4,919	1,860	6,497	18,585
1977		37,156	1,187	3,873	7,094	8,528	3,343	4,883	1,951	6,297	20,324
1978 ¹		37,505	1,140	3,938	7,335	8,509	3,249	4,950	1,973	6,411	21,248
1979		39,967	1,152	4,218	7,623	9,039	3,743	5,428	2,135	6,629	22,746
1980		42,627	1,327	4,490	7,958	9,963	3,736	5,841	2,254	7,058	23,983
1981		45,725	1,483	4,989	8,799	10,450	3,603	6,422	2,454	7,525	24,073
1982		49,755	1,522	5,608	9,381	11,533	3,807	7,267	2,478	8,159	22,875
1983		53,908	1,840	5,869	9,804	13,265	3,288	8,330	2,704	8,808	22,599
1984 ²		55,167	1,854	5,734	10,086	13,925	3,393	8,698	2,872	8,605	22,907
1985 ²		55,896	1,994	5,546	9,749	14,799	3,456	8,875	3,093	8,384	23,295
1986 ²		60,166	2,154	5,594	9,971	16,290	3,807	9,789	3,370	9,191	23,356
1987 ²		61,932	2,372	5,674	9,628	17,101	4,156	10,230	3,436	9,335	23,861
1988		63,007	2,533	5,359	9,946	17,706	4,295	10,416	3,466	9,286	24,537
1989		64,375	2,772	5,282	9,964	18,466	4,658	10,492	3,720	9,021	25,813
1990		65,977	3,010	5,443	10,128	18,675	4,770	10,867	3,930	9,154	27,431
1991		71,004	3,325	5,788	11,328	19,874	5,598	11,687	4,058	9,346	29,888
1992		74,407	3,306	5,946	12,454	20,977	6,081	12,383	4,274	8,986	32,108
1993		73,770	3,262	6,041	12,458	20,343	5,902	12,395	4,249	9,120	35,679
1994		71,539	3,000	6,105	12,641	19,385	5,910	11,875	4,108	8,515	39,109
1995		67,754	2,693	5,957	12,248	18,167	5,342	11,128	3,880	8,339	42,111
1996		65,829	2,576	5,909	11,791	17,967	5,128	10,690	3,693	8,075	44,497
1997		65,576	2,529	5,784	11,331	18,854	5,075	10,432	3,661	7,910	46,633
1998		65,331	2,565	5,601	11,079	19,470	4,853	10,073	3,702	7,988	48,468
1999		67,832	2,645	5,569	11,178	20,224	5,284	10,333	3,537	9,062	50,490

¹ Master's-granting institutions were not surveyed in 1978; totals represent estimates based on 1977 and 1979 data.

² These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 6. Male full-time graduate students in science, engineering, and health fields in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976	156,169	121,312	19,205	8,457	8,476	4,006	7,945	26,183	14,591	32,449	
1977	154,398	119,499	19,293	8,641	8,083	3,845	7,903	25,866	13,949	31,919	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	151,981	115,444	19,044	8,404	7,497	4,803	7,745	24,480	13,277	30,194	
1980	153,138	114,365	19,214	8,388	7,595	5,184	7,778	23,804	12,779	29,623	
1981	154,075	112,963	19,306	8,361	7,612	5,718	7,884	23,189	12,007	28,886	
1982	156,404	111,896	19,641	8,532	8,022	6,860	7,592	22,144	11,223	27,882	
1983	161,537	113,248	20,371	8,995	8,037	7,961	7,448	21,961	11,361	27,114	
1984 ²	162,399	113,279	20,755	8,876	8,328	8,693	7,328	22,012	10,714	26,573	
1985 ²	164,198	114,583	21,241	8,500	8,614	10,806	6,853	21,798	10,232	26,539	
1986 ²	169,869	116,673	22,022	8,336	8,984	11,703	6,955	21,992	10,263	26,418	
1987 ²	172,138	117,489	22,384	7,759	9,481	12,005	6,716	22,099	10,422	26,623	
1988	172,339	116,951	22,208	7,444	9,794	11,795	6,640	22,404	10,199	26,467	
1989	175,103	118,864	22,547	7,268	9,746	12,355	6,557	22,736	10,467	27,188	
1990	178,692	121,413	22,664	7,317	9,821	13,218	6,454	22,789	10,642	28,508	
1991	185,088	123,759	22,845	7,197	10,035	13,057	6,424	23,498	10,957	29,746	
1992	191,790	128,041	23,173	7,588	10,250	13,949	6,454	24,233	11,171	31,223	
1993	190,862	128,284	22,888	7,802	10,096	13,811	6,294	24,923	11,189	31,281	
1994	186,674	126,710	22,277	7,663	9,810	13,152	6,179	25,496	11,131	31,002	
1995	179,832	123,574	21,220	7,381	9,213	12,860	6,164	25,319	10,903	30,514	
1996	174,784	120,753	20,394	6,942	8,797	13,102	5,860	24,762	10,775	30,121	
1997	170,144	117,078	19,440	6,664	8,171	13,536	5,610	24,035	10,833	28,789	
1998	167,316	114,820	19,034	6,374	7,797	14,520	5,409	23,694	10,509	27,483	
1999	169,025	114,687	19,076	6,180	7,660	16,327	5,403	23,285	10,085	26,671	
		Engineering									
		Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering	Health fields
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976	34,857	1,142	3,457	6,512	7,850	3,199	4,797	1,751	6,149	7,503	
1977	34,899	1,160	3,595	6,553	8,146	2,967	4,742	1,809	5,927	7,490	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	36,537	1,116	3,789	6,729	8,585	3,164	5,170	1,922	6,062	7,595	
1980	38,773	1,273	4,025	7,059	9,405	3,071	5,525	2,023	6,392	7,725	
1981	41,112	1,432	4,456	7,673	9,739	2,915	6,075	2,167	6,655	7,403	
1982	44,508	1,449	4,936	8,140	10,715	3,042	6,834	2,170	7,222	6,869	
1983	48,289	1,760	5,100	8,509	12,302	2,673	7,847	2,380	7,718	6,678	
1984 ²	49,120	1,768	5,002	8,648	12,775	2,769	8,137	2,518	7,503	6,675	
1985 ²	49,615	1,868	4,792	8,257	13,591	2,821	8,316	2,654	7,316	6,747	
1986 ²	53,196	2,006	4,806	8,484	14,823	3,073	9,162	2,849	7,993	6,707	
1987 ²	54,649	2,205	4,800	8,230	15,552	3,422	9,498	2,867	8,075	7,292	
1988	55,388	2,365	4,567	8,381	16,024	3,559	9,581	2,887	8,024	7,231	
1989	56,239	2,592	4,486	8,315	16,644	3,751	9,637	3,081	7,733	7,685	
1990	57,279	2,811	4,547	8,347	16,719	3,862	10,019	3,238	7,736	8,029	
1991	61,329	3,071	4,803	9,309	17,717	4,556	10,745	3,316	7,812	8,451	
1992	63,749	3,043	4,849	10,126	18,557	4,906	11,297	3,467	7,504	9,029	
1993	62,578	2,971	4,875	9,934	17,906	4,729	11,210	3,447	7,506	9,920	
1994	59,964	2,722	4,912	9,855	16,996	4,612	10,658	3,268	6,941	10,755	
1995	56,258	2,417	4,734	9,431	15,727	4,191	9,993	3,064	6,701	11,370	
1996	54,011	2,293	4,594	8,937	15,427	4,037	9,500	2,878	6,345	12,356	
1997	53,066	2,226	4,425	8,407	16,043	3,977	9,143	2,806	6,039	13,164	
1998	52,496	2,251	4,209	8,125	16,416	3,776	8,840	2,810	6,069	13,593	
1999	54,338	2,320	4,178	8,118	16,967	4,198	9,072	2,699	6,786	13,815	

1 Master's-granting institutions were not surveyed in 1978.

2 These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 7. Female full-time graduate students in science, engineering, and health fields in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									Social sciences
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology		
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1976	48,692	46,667	3,047	1,634	2,476	742	1,491	11,722	11,052	14,503	
1977	52,054	49,797	3,212	1,783	2,282	759	1,808	12,549	11,754	15,650	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	57,063	53,633	3,491	2,221	2,170	1,050	2,207	13,516	12,571	16,407	
1980	61,327	57,473	3,703	2,483	2,306	1,403	2,390	13,886	13,892	17,410	
1981	63,928	59,315	4,001	2,573	2,540	1,727	2,428	14,088	14,563	17,395	
1982	65,517	60,270	4,397	2,787	2,791	2,311	2,544	14,544	14,444	16,452	
1983	67,919	62,300	4,833	2,973	2,918	2,639	2,528	14,779	15,200	16,430	
1984 ²	68,616	62,569	5,097	2,858	2,981	2,743	2,580	15,102	15,255	15,953	
1985 ²	69,794	63,513	5,428	2,834	3,202	3,055	2,397	15,203	15,103	16,291	
1986 ²	72,943	65,973	5,740	2,913	3,404	3,317	2,386	15,817	15,992	16,404	
1987 ²	75,057	67,774	6,028	2,676	3,562	3,331	2,378	16,136	16,834	16,829	
1988	78,309	70,690	6,366	2,748	3,718	3,338	2,482	16,805	17,919	17,314	
1989	81,795	73,659	6,660	2,753	3,935	3,251	2,513	17,612	18,881	18,054	
1990	86,700	78,002	6,821	2,927	4,044	3,471	2,646	18,156	19,976	19,961	
1991	92,079	82,404	7,272	3,176	4,221	3,489	2,865	19,202	21,301	20,878	
1992	98,711	88,053	7,500	3,396	4,429	3,556	3,000	20,159	22,991	23,022	
1993	103,160	91,968	7,723	3,549	4,434	3,590	3,190	21,564	23,593	24,325	
1994	106,366	94,791	7,766	3,789	4,416	3,549	3,331	22,530	24,157	25,253	
1995	107,413	95,917	7,656	3,881	4,197	3,650	3,469	23,047	24,319	25,698	
1996	109,367	97,549	7,535	3,855	4,169	4,093	3,467	23,020	24,637	26,773	
1997	110,533	98,023	7,425	3,863	3,973	4,799	3,523	22,976	24,718	26,746	
1998	111,663	98,828	7,356	4,071	3,954	5,452	3,606	23,411	24,639	26,339	
1999	114,890	101,396	7,564	4,312	4,132	6,381	3,807	23,983	24,630	26,587	
Engineering											
Year	Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering	Health fields	
1975	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976	2,025	23	234	513	297	379	122	109	348	11,082	
1977	2,257	27	278	541	382	376	141	142	370	12,834	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979	3,430	36	429	894	454	579	258	213	567	15,151	
1980	3,854	54	465	899	558	665	316	231	666	16,258	
1981	4,613	51	533	1,126	711	688	347	287	870	16,670	
1982	5,247	73	672	1,241	818	765	433	308	937	16,006	
1983	5,619	80	769	1,295	963	615	483	324	1,090	15,921	
1984 ²	6,047	86	732	1,438	1,150	624	561	354	1,102	16,232	
1985 ²	6,281	126	754	1,492	1,208	635	559	439	1,068	16,548	
1986 ²	6,970	148	788	1,487	1,467	734	627	521	1,198	16,649	
1987 ²	7,283	167	874	1,398	1,549	734	732	569	1,260	16,569	
1988	7,619	168	792	1,565	1,682	736	835	579	1,262	17,306	
1989	8,136	180	796	1,649	1,822	907	855	639	1,288	18,128	
1990	8,698	199	896	1,781	1,956	908	848	692	1,418	19,402	
1991	9,675	254	985	2,019	2,157	1,042	942	742	1,534	21,437	
1992	10,658	263	1,097	2,328	2,420	1,175	1,086	807	1,482	23,079	
1993	11,192	291	1,166	2,524	2,437	1,173	1,185	802	1,614	25,759	
1994	11,575	278	1,193	2,786	2,389	1,298	1,217	840	1,574	28,354	
1995	11,496	276	1,223	2,817	2,440	1,151	1,135	816	1,638	30,741	
1996	11,818	283	1,315	2,854	2,540	1,091	1,190	815	1,730	32,141	
1997	12,510	303	1,359	2,924	2,811	1,098	1,289	855	1,871	33,469	
1998	12,835	314	1,392	2,954	3,054	1,077	1,233	892	1,919	34,875	
1999	13,494	325	1,391	3,060	3,257	1,086	1,261	838	2,276	36,675	

1 Master's-granting institutions were not surveyed in 1978.

2 These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 8. Full-time graduate students with U.S. citizenship and permanent resident status in science, engineering, and health fields in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									Health fields	
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences		
1975 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1976 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1977 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1979 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1980 ²	166,192	141,456	17,186	9,484	6,647	4,521	7,872	33,171	25,461	37,114		
1981 ²	165,662	139,618	17,049	9,439	6,511	4,887	7,873	32,490	25,566	35,803		
1982 ²	166,743	138,270	17,584	9,693	6,926	5,981	7,676	31,720	24,588	34,102		
1983 ²	169,927	138,772	18,009	10,299	6,714	6,677	7,446	31,283	25,468	32,876		
1984 ^{2 3}	169,916	137,969	18,292	10,164	6,772	6,982	7,420	31,374	24,924	32,041		
1985 ^{2 3}	168,281	136,457	18,186	9,669	6,995	8,327	6,854	30,715	24,179	31,532		
1986 ^{2 3}	170,434	137,204	18,264	9,382	7,243	8,912	6,743	30,663	25,085	30,912		
1987 ^{2 3}	171,159	137,236	18,384	8,496	7,549	8,863	6,434	30,255	26,044	31,211		
1988 ²	170,227	136,716	18,130	8,040	7,738	8,415	6,443	30,244	26,802	30,904		
1989 ²	173,412	139,343	18,107	7,717	7,697	8,616	6,393	30,367	28,021	32,425		
1990 ²	177,797	143,333	17,836	7,813	7,961	8,742	6,215	30,286	29,133	35,347		
1991 ²	185,480	148,418	18,267	7,802	8,380	8,455	6,405	31,102	30,634	37,373		
1992	197,462	157,593	18,759	8,307	8,939	8,881	6,592	32,559	32,548	41,008		
1993	204,472	163,283	19,231	8,666	9,056	9,019	6,675	34,522	33,196	42,918		
1994	206,839	165,698	19,130	8,592	8,876	8,757	6,696	36,233	33,430	43,984		
1995	204,153	165,571	18,400	8,676	8,291	8,627	6,879	37,213	33,574	43,911		
1996	200,717	164,255	17,630	8,401	7,885	8,400	6,754	37,245	33,789	44,151		
1997	195,975	161,161	16,788	8,306	7,262	8,578	6,763	36,755	33,881	42,828		
1998	191,947	158,620	16,467	8,259	7,061	9,042	6,775	36,587	33,410	41,019		
1999	190,146	157,900	16,314	8,273	6,589	9,960	7,048	36,949	32,977	39,790		
Engineering												
	Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering			
1975 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1977 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1980 ²	24,736	759	2,500	4,670	5,666	2,297	3,211	1,147	4,486	21,950		
1981 ²	26,044	882	2,787	5,162	5,665	2,029	3,363	1,342	4,814	21,938		
1982 ²	28,473	945	3,267	5,428	6,421	2,190	3,767	1,297	5,158	20,586		
1983 ²	31,155	1,088	3,630	5,544	7,398	1,933	4,327	1,530	5,705	20,201		
1984 ^{2 3}	31,947	1,115	3,603	5,687	7,890	1,934	4,591	1,663	5,464	20,561		
1985 ^{2 3}	31,824	1,258	3,337	5,282	8,137	1,874	4,858	1,805	5,273	20,762		
1986 ^{2 3}	33,230	1,343	3,412	5,303	8,572	2,053	5,218	1,854	5,475	20,665		
1987 ^{2 3}	33,923	1,559	3,353	5,090	9,002	2,145	5,559	1,829	5,386	21,103		
1988 ²	33,511	1,502	2,957	5,208	9,295	2,227	5,299	1,805	5,218	21,485		
1989 ²	34,069	1,757	2,668	5,097	9,723	2,426	5,632	1,890	4,876	22,527		
1990 ²	34,464	1,870	2,668	5,375	9,652	2,374	5,781	1,985	4,759	23,875		
1991 ²	37,062	2,201	2,798	6,140	9,947	2,760	6,120	2,067	5,029	26,127		
1992	39,869	2,246	2,948	7,003	10,548	3,076	6,803	2,247	4,998	28,428		
1993	41,189	2,178	3,107	7,440	10,394	3,209	7,228	2,264	5,369	31,872		
1994	41,141	1,862	3,370	7,848	10,441	3,180	7,090	2,335	5,015	35,485		
1995	38,582	1,611	3,304	7,652	9,365	2,863	6,548	2,158	5,081	38,491		
1996	36,462	1,417	3,368	7,509	8,688	2,512	6,024	1,961	4,983	40,534		
1997	34,814	1,327	3,263	7,037	8,475	2,421	5,591	1,894	4,806	42,656		
1998	33,327	1,268	3,044	6,827	8,089	2,234	5,212	1,867	4,786	44,507		
1999	32,246	1,278	2,818	6,461	7,487	2,343	5,009	1,690	5,160	46,207		

¹ Distribution by citizenship data were not requested before 1980.

² For 1991 and earlier years, these figures do not include permanent residents.

³ These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 9. Full-time graduate students without U.S. citizenship and permanent resident status in science, engineering, and health fields in all institutions, by field: 1975-1999

Year	Total, science and engineering	Sciences									Health fields
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences	
1975 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1976 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1977 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1979 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1980 ²	48,273	30,382	5,731	1,387	3,254	2,066	2,296	4,519	1,210	9,919	10,478
1981 ²	52,341	32,660	6,258	1,495	3,641	2,558	2,439	4,787	1,004	10,232	10,668
1982 ²	55,178	33,896	6,454	1,626	3,887	3,190	2,460	4,968	1,079	10,232	10,668
1983 ²	59,529	36,776	7,195	1,669	4,241	3,923	2,530	5,457	1,093	10,485	11,298
1984 ^{2 3}	61,099	37,879	7,560	1,570	4,537	4,454	2,488	5,740	1,045	11,910	12,241
1985 ^{2 3}	65,711	41,639	8,483	1,665	4,821	5,534	2,396	6,286	1,156	12,877	13,251
1986 ^{2 3}	72,378	45,442	9,498	1,867	5,145	6,108	2,598	7,146	1,170	12,241	12,877
1987 ^{2 3}	76,036	48,027	10,028	1,939	5,494	6,473	2,660	7,980	1,212	12,817	13,122
1988 ²	80,421	50,925	10,444	2,152	5,774	6,718	2,679	8,965	1,316	13,251	13,237
1989 ²	83,486	53,180	11,100	2,304	5,984	6,990	2,677	9,981	1,327	12,688	12,271
1990 ²	87,595	56,082	11,649	2,431	5,904	7,947	2,885	10,659	1,485	13,122	13,251
1991 ²	91,687	57,745	11,850	2,571	5,876	8,091	2,884	11,598	1,624	13,237	12,688
1992	93,039	58,501	11,914	2,677	5,740	8,624	2,862	11,833	1,614	12,271	12,301
1993	89,550	56,969	11,380	2,685	5,474	8,382	2,809	11,965	1,586	12,743	12,707
1994	86,201	55,803	10,913	2,860	5,350	7,944	2,814	11,793	1,858	12,803	13,468
1995	83,092	53,920	10,476	2,586	5,119	7,883	2,754	11,153	1,648	12,707	12,803
1996	83,414	54,047	10,299	2,396	5,081	8,795	2,573	10,537	1,623	12,707	12,803
1997	84,702	53,940	10,077	2,221	4,882	9,757	2,370	10,256	1,670	12,803	13,468
1998	87,032	55,028	9,923	2,186	4,690	10,930	2,240	10,518	1,738	12,803	13,468
1999	93,769	58,183	10,326	2,219	5,203	12,748	2,162	10,319	1,738	12,803	13,468
Engineering											
Engi- neering, total	Aerospace engineering	Chemical engineering	Civil engi- neering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallur- gical & materials engineering	Other engi- neering			
1975 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1976 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1977 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1978 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1979 ¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1980 ²	17,891	568	1,990	3,288	4,297	1,439	2,630	1,107	2,572	2,033	
1981 ²	19,681	601	2,202	3,637	4,785	1,574	3,059	1,112	2,711	2,135	
1982 ²	21,282	577	2,341	3,953	5,112	1,617	3,500	1,181	3,001	2,289	
1983 ²	22,753	752	2,239	4,260	5,867	1,355	4,003	1,174	3,103	2,398	
1984 ^{2 3}	23,220	739	2,131	4,399	6,035	1,459	4,107	1,209	3,141	2,346	
1985 ^{2 3}	24,072	736	2,209	4,467	6,662	1,582	4,017	1,288	3,111	2,533	
1986 ^{2 3}	26,936	811	2,182	4,668	7,718	1,754	4,571	1,516	3,716	2,691	
1987 ^{2 3}	28,009	813	2,321	4,538	8,099	2,011	4,671	1,607	3,949	2,758	
1988 ²	29,496	1,031	2,402	4,738	8,411	2,068	5,117	1,661	4,068	3,052	
1989 ²	30,306	1,015	2,614	4,867	8,743	2,232	4,860	1,830	4,145	3,286	
1990 ²	31,513	1,140	2,775	4,753	9,023	2,396	5,086	1,945	4,395	3,556	
1991 ²	33,942	1,124	2,990	5,188	9,927	2,838	5,567	1,991	4,317	3,761	
1992	34,538	1,060	2,998	5,451	10,429	3,005	5,580	2,027	3,988	3,680	
1993	32,581	1,084	2,934	5,018	9,949	2,693	5,167	1,985	3,751	3,807	
1994	30,398	1,138	2,735	4,793	8,944	2,730	4,785	1,773	3,500	3,624	
1995	29,172	1,082	2,653	4,596	8,802	2,479	4,580	1,722	3,258	3,620	
1996	29,367	1,159	2,541	4,282	9,279	2,616	4,666	1,732	3,092	3,963	
1997	30,762	1,202	2,521	4,294	10,379	2,654	4,841	1,767	3,104	3,977	
1998	32,004	1,297	2,557	4,252	11,381	2,619	4,861	1,835	3,202	3,961	
1999	35,586	1,367	2,751	4,717	12,737	2,941	5,324	1,847	3,902	4,283	

1 Distribution by citizenship data were not requested before 1980.

2 For 1991 and earlier years, these figures include permanent residents and students with temporary visas. Beginning in 1992, these figures include only students with temporary visas.

3 These figures include estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984-1987. See "Technical Notes" for further information.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 10. Graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	493,624	504,409	504,516	499,750	494,195	487,279	485,724	493,425
Total, science and engineering fields	430,635	435,869	431,233	422,533	415,258	407,656	404,903	411,308
Sciences, total	312,632	319,035	318,240	315,360	312,069	306,586	304,934	309,840
Physical sciences, total	35,348	35,318	34,449	33,388	32,324	31,078	30,571	30,689
Astronomy	869	880	973	912	874	778	820	832
Chemistry	19,929	20,131	19,797	19,565	19,327	18,764	18,479	18,414
Physics	14,122	13,841	13,162	12,425	11,728	11,147	10,809	10,869
Physical sciences, n.e.c.	428	466	517	486	395	389	463	574
Earth, atmos., & ocean sci., total	15,333	15,731	15,968	15,722	15,185	14,565	14,259	14,082
Atmospheric sciences	1,089	1,112	1,109	1,072	1,086	1,092	965	913
Geosciences	7,744	7,785	7,741	7,608	7,323	6,997	6,705	6,652
Oceanography	2,530	2,611	2,853	2,703	2,598	2,458	2,545	2,608
Earth, atmos., & ocean sci., n.e.c.	3,970	4,223	4,265	4,339	4,178	4,018	4,044	3,909
Mathematical sciences, total	20,355	20,000	19,579	18,509	18,015	16,729	16,488	16,254
Mathematics & applied mathematics	17,404	16,945	16,463	15,400	14,970	14,048	13,841	13,530
Statistics	2,951	3,055	3,116	3,109	3,045	2,681	2,647	2,724
Computer sciences	36,325	36,213	34,158	33,458	34,626	35,991	38,027	42,560
Agricultural sciences	11,841	11,988	12,273	12,450	12,009	11,893	11,877	12,036
Biological sciences, total	54,180	56,458	58,152	58,775	58,170	57,140	57,124	57,320
Anatomy	991	986	1,043	1,008	1,046	1,029	947	913
Biochemistry	5,376	5,513	5,632	5,579	5,296	5,123	5,173	5,120
Biology	13,874	14,327	14,220	14,284	14,635	14,643	14,289	13,996
Biometry/epidemiology	2,365	2,658	2,710	2,812	3,001	2,900	3,484	3,575
Biophysics	751	780	794	845	833	748	737	710
Botany	2,689	2,714	2,748	2,609	2,504	2,402	2,328	2,261
Cell biology	3,132	3,415	3,804	3,938	3,961	4,046	4,148	4,402
Ecology	1,301	1,410	1,566	1,680	1,615	1,619	1,655	1,687
Entomology/parasitology	1,193	1,247	1,263	1,241	1,234	1,161	1,168	1,145
Genetics	1,639	1,785	1,699	1,700	1,729	1,760	1,705	1,767
Microbio., immunology, & virology	4,972	5,068	5,141	5,072	4,963	4,854	4,869	4,910
Nutrition	4,159	4,388	4,747	5,016	4,859	4,550	4,430	4,449
Pathology	1,456	1,575	1,707	1,670	1,656	1,674	1,580	1,580
Pharmacology	2,532	2,651	2,839	2,710	2,663	2,597	2,730	2,757
Physiology	2,317	2,372	2,378	2,540	2,377	2,298	2,151	2,100
Zoology	2,139	2,120	2,092	2,068	1,911	1,730	1,676	1,614
Biosciences, n.e.c.	3,294	3,449	3,769	4,003	3,887	4,006	4,054	4,334
Psychology, total	53,484	54,557	54,554	53,641	53,122	53,126	52,557	51,874
Psychology, general	18,802	18,887	18,297	17,666	16,894	17,350	17,241	16,353
Clinical psychology	12,090	12,526	12,684	12,519	12,787	13,008	12,648	12,716
Psychology, n.e.c.	22,592	23,144	23,573	23,456	23,441	22,768	22,668	22,805
Social sciences, total	85,766	88,770	89,107	89,417	88,618	86,064	84,031	85,025
Agricultural economics	2,522	2,415	2,289	2,338	2,117	2,043	1,995	2,014
Anthropology (cultural & social)	7,123	7,361	7,665	7,693	7,773	7,560	7,577	7,633
Economics (except agricultural)	13,252	13,214	12,913	12,673	12,080	11,097	10,701	10,562
Geography	4,102	4,378	4,502	4,371	4,331	4,287	4,326	4,250
History and philosophy of science	360	369	387	401	409	443	508	557
Linguistics	3,277	3,321	3,279	3,194	3,156	3,068	2,935	2,799
Political science	33,797	35,076	34,317	34,298	33,252	32,083	30,828	31,398
Sociology	9,011	9,425	9,498	9,564	9,425	9,413	9,058	8,966
Sociology/anthropology	979	935	987	941	923	948	857	741
Social sciences, n.e.c.	11,343	12,276	13,270	13,944	15,152	15,122	15,246	16,105
Engineering, total	118,003	116,834	112,993	107,173	103,189	101,070	99,969	101,468
Aerospace engineering	4,036	3,940	3,715	3,343	3,208	3,083	3,137	3,349
Agricultural engineering	1,008	1,018	1,061	1,037	1,012	941	925	934
Biomedical engineering	2,537	2,675	2,750	2,732	2,732	2,847	2,905	3,121
Chemical engineering	7,397	7,516	7,608	7,424	7,373	7,247	7,060	6,849
Civil engineering	19,572	19,583	19,925	19,218	18,528	17,156	16,481	16,190
Electrical engineering	36,428	35,290	33,020	30,721	29,702	30,548	31,129	31,368
Engineering science	2,218	2,180	2,089	1,955	1,751	1,647	1,701	1,627
Industrial/manufacturing eng.	13,525	13,596	13,661	13,143	12,399	11,736	10,995	10,886
Mechanical engineering	18,637	18,477	17,761	16,363	15,509	15,045	14,696	14,956
Metallurgical/materials eng.	5,512	5,363	5,191	4,920	4,713	4,649	4,644	4,451
Mining engineering	437	427	424	373	371	348	304	328
Nuclear engineering	1,286	1,306	1,246	1,154	980	868	821	830
Petroleum engineering	737	725	624	610	562	561	571	642
Engineering, n.e.c.	4,673	4,738	3,918	4,180	4,349	4,394	4,600	5,937

See explanatory information, if any, and SOURCE at end of table.

Table 10. Graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, health fields	62,989	68,540	73,283	77,217	78,937	79,623	80,821	82,117
Medical fields, total	12,594	14,184	15,027	15,500	15,293	15,403	16,600	17,244
Anesthesiology	708	719	729	749	754	840	907	898
Cardiology	8	11	14	19	18	33	36	63
Oncology/cancer research	197	209	208	189	185	198	209	250
Endocrinology	71	63	63	53	46	43	58	67
Gastroenterology	0	1	0	0	0	3	6	7
Hematology	5	3	2	1	3	3	1	5
Neurology	1,149	1,311	1,455	1,554	1,632	1,696	1,800	1,888
Obstetrics and gynecology	3	3	4	6	4	18	13	16
Ophthalmology	27	19	32	30	33	33	38	49
Otorhinolaryngology	0	1	2	0	0	2	0	3
Pediatrics	154	196	261	238	275	342	328	316
Preventive medicine/community health	8,737	9,976	10,459	10,837	10,516	10,381	11,454	11,866
Psychiatry	147	172	225	249	218	228	136	119
Pulmonary disease	0	0	0	0	0	0	0	6
Radiology	252	287	320	314	285	267	249	229
Surgery	76	82	119	174	167	171	122	122
Clinical medicine, n.e.c.	1,060	1,131	1,134	1,087	1,157	1,145	1,243	1,340
Other health fields, total	50,395	54,356	58,256	61,717	63,644	64,220	64,221	64,873
Dental sciences	1,121	1,133	1,199	1,251	1,291	1,411	1,426	1,383
Nursing	23,213	24,781	26,997	28,405	27,388	26,861	25,591	25,068
Pharmaceutical sciences	2,792	2,859	2,887	2,808	2,846	2,710	2,882	3,422
Speech pathology/audiology	9,791	10,740	11,473	12,092	12,973	13,320	13,331	13,653
Veterinary sciences	942	877	875	929	946	1,175	1,192	1,216
Health related, n.e.c.	12,536	13,966	14,825	16,232	18,200	18,743	19,799	20,131

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 11. Male graduate students in science, engineering, and health fields in all institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	294,225	294,481	288,360	279,311	271,665	264,439	260,962	262,692
Total, science and engineering fields	280,396	279,285	272,116	262,332	253,597	245,629	241,458	242,840
Sciences, total	179,610	180,134	177,170	173,166	168,653	163,293	160,496	161,215
Physical sciences, total	26,504	26,116	25,290	24,308	23,282	22,237	21,820	21,784
Astronomy	683	682	750	689	647	570	590	607
Chemistry	13,367	13,279	12,956	12,740	12,490	12,046	11,916	11,804
Physics	12,179	11,865	11,254	10,590	9,919	9,403	9,029	8,996
Physical sciences, n.e.c.	275	290	330	289	226	218	285	377
Earth, atmos., & ocean sci., total	10,482	10,701	10,645	10,286	9,737	9,146	8,690	8,362
Atmospheric sciences	848	887	867	835	852	829	731	671
Geosciences	5,667	5,675	5,506	5,310	4,991	4,686	4,379	4,245
Oceanography	1,571	1,607	1,746	1,609	1,539	1,415	1,393	1,398
Earth, atmos., & ocean sci., n.e.c.	2,396	2,532	2,526	2,532	2,355	2,216	2,187	2,048
Mathematical sciences	13,806	13,362	13,044	12,248	11,794	10,857	10,499	10,213
Computer sciences	27,854	27,782	26,071	25,325	25,829	26,110	27,225	29,990
Agricultural sciences	8,066	7,870	7,955	7,985	7,551	7,321	7,152	7,121
Biological sciences, total	28,705	29,402	29,991	29,913	29,387	28,510	28,028	27,560
Anatomy	513	512	532	525	560	553	520	482
Biochemistry	3,158	3,182	3,250	3,162	3,003	2,942	2,938	2,846
Biology	7,295	7,520	7,476	7,395	7,511	7,370	7,085	6,850
Biometry/epidemiology	1,037	1,132	1,124	1,139	1,227	1,119	1,343	1,308
Biophysics	549	554	576	604	589	532	528	497
Botany	1,635	1,620	1,584	1,465	1,394	1,283	1,210	1,168
Cell biology	1,711	1,824	2,060	2,121	2,097	2,118	2,122	2,160
Ecology	712	746	821	906	847	838	832	817
Entomology/parasitology	839	847	846	827	810	751	754	739
Genetics	797	853	787	818	828	801	735	760
Microbio., immunology, & virology	2,606	2,600	2,632	2,591	2,506	2,431	2,447	2,407
Nutrition	1,208	1,244	1,267	1,287	1,231	1,138	1,069	1,069
Pathology	809	834	925	890	847	842	776	776
Pharmacology	1,351	1,407	1,487	1,399	1,372	1,368	1,405	1,414
Physiology	1,366	1,389	1,392	1,482	1,396	1,364	1,265	1,190
Zoology	1,311	1,260	1,216	1,202	1,091	974	941	907
Biosciences, n.e.c.	1,808	1,878	2,016	2,100	2,078	2,086	2,058	2,170
Psychology	16,650	16,567	16,416	15,877	15,375	15,507	15,095	14,497
Social sciences, total	47,543	48,334	47,758	47,224	45,698	43,605	41,987	41,688
Agricultural economics	1,810	1,665	1,541	1,555	1,407	1,355	1,315	1,301
Anthropology (cultural & social)	2,876	2,969	3,072	3,140	3,087	3,059	3,021	2,989
Economics (except agricultural)	9,450	9,358	9,120	8,797	8,297	7,585	7,237	7,063
Geography	2,671	2,796	2,904	2,786	2,770	2,662	2,663	2,547
Linguistics	1,281	1,301	1,213	1,194	1,133	1,051	982	966
Political science	18,826	19,320	18,733	18,348	17,620	16,679	15,867	15,816
Sociology	3,861	3,857	3,758	3,781	3,640	3,591	3,362	3,227
Sociology/anthropology	445	423	396	387	382	377	335	271
Social sciences, other	6,323	6,645	7,021	7,236	7,362	7,246	7,205	7,508
Engineering, total	100,786	99,151	94,946	89,166	84,944	82,336	80,962	81,625
Aerospace engineering	3,688	3,583	3,357	2,992	2,856	2,712	2,755	2,926
Agricultural engineering	864	867	861	835	802	723	682	683
Biomedical engineering	1,920	1,977	2,053	2,006	1,999	2,021	2,035	2,117
Chemical engineering	6,003	6,017	6,082	5,863	5,731	5,538	5,339	5,123
Civil engineering	15,918	15,725	15,714	14,986	14,228	12,967	12,354	12,010
Electrical engineering	32,151	30,977	28,918	26,633	25,580	26,110	26,382	26,402
Engineering science	1,913	1,876	1,783	1,658	1,456	1,369	1,370	1,308
Industrial/manufacturing eng.	10,870	11,003	10,866	10,388	9,685	9,125	8,588	8,463
Mechanical engineering	16,939	16,703	15,938	14,686	13,873	13,266	12,934	13,169
Metallurgical/materials eng.	4,443	4,336	4,122	3,861	3,653	3,555	3,529	3,379
Nuclear engineering	1,100	1,121	1,093	1,009	827	725	687	686
Engineering, other	4,977	4,966	4,159	4,249	4,254	4,225	4,307	5,359
Total, health fields	13,829	15,196	16,244	16,979	18,068	18,810	19,504	19,852
Clinical fields	1,289	1,353	1,373	1,348	1,407	1,510	1,563	1,646
Dental sciences	772	786	819	819	831	881	890	867
Nursing	1,168	1,285	1,506	1,661	1,765	2,036	2,159	2,261
Pharmaceutical sciences	1,612	1,586	1,585	1,524	1,523	1,423	1,518	1,732
Preventive medicine/community health	3,334	3,892	4,108	4,188	4,239	4,145	4,294	4,362
Speech pathology/audiology	777	856	935	983	1,042	1,075	1,064	1,057
Veterinary sciences	536	470	467	490	505	586	564	535
Other health fields	4,341	4,968	5,451	5,966	6,756	7,154	7,452	7,392

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 12. Female graduate students in science, engineering, and health fields in all institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	199,399	209,928	216,156	220,439	222,530	222,840	224,762	230,733
Total, science and engineering fields	150,239	156,584	159,117	160,201	161,661	162,027	163,445	168,468
Sciences, total	133,022	138,901	141,070	142,194	143,416	143,293	144,438	148,625
Physical sciences, total	8,844	9,202	9,159	9,080	9,042	8,841	8,751	8,905
Astronomy	186	198	223	223	227	208	230	225
Chemistry	6,562	6,852	6,841	6,825	6,837	6,718	6,563	6,610
Physics	1,943	1,976	1,908	1,835	1,809	1,744	1,780	1,873
Physical sciences, n.e.c.	153	176	187	197	169	171	178	197
Earth, atmos., & ocean sci., total	4,851	5,030	5,323	5,436	5,448	5,419	5,569	5,720
Atmospheric sciences	241	225	242	237	234	263	234	242
Geosciences	2,077	2,110	2,235	2,298	2,332	2,311	2,326	2,407
Oceanography	959	1,004	1,107	1,094	1,059	1,043	1,152	1,210
Earth, atmos., & ocean sci., n.e.c.	1,574	1,691	1,739	1,807	1,823	1,802	1,857	1,861
Mathematical sciences	6,549	6,638	6,535	6,261	6,221	5,872	5,989	6,041
Computer sciences	8,471	8,431	8,087	8,133	8,797	9,881	10,802	12,570
Agricultural sciences	3,775	4,118	4,318	4,465	4,458	4,572	4,725	4,915
Biological sciences, total	25,475	27,056	28,161	28,862	28,783	28,630	29,096	29,760
Anatomy	478	474	511	483	486	476	427	431
Biochemistry	2,218	2,331	2,382	2,417	2,293	2,181	2,235	2,274
Biology	6,579	6,807	6,744	6,889	7,124	7,273	7,204	7,146
Biometry/epidemiology	1,328	1,526	1,586	1,673	1,774	1,781	2,141	2,267
Biophysics	202	226	218	241	244	216	209	213
Botany	1,054	1,094	1,164	1,144	1,110	1,119	1,118	1,093
Cell biology	1,421	1,591	1,744	1,817	1,864	1,928	2,026	2,242
Ecology	589	664	745	774	768	781	823	870
Entomology/parasitology	354	400	417	414	424	410	414	406
Genetics	842	932	912	882	901	959	970	1,007
Microbio., immunology, & virology	2,366	2,468	2,509	2,481	2,457	2,423	2,422	2,503
Nutrition	2,951	3,144	3,480	3,729	3,628	3,412	3,361	3,380
Pathology	647	741	782	780	809	832	804	804
Pharmacology	1,181	1,244	1,352	1,311	1,291	1,229	1,325	1,343
Physiology	951	983	986	1,058	981	934	886	910
Zoology	828	860	876	866	820	756	735	707
Biosciences, n.e.c.	1,486	1,571	1,753	1,903	1,809	1,920	1,996	2,164
Psychology	36,834	37,990	38,138	37,764	37,747	37,619	37,462	37,377
Social sciences, total	38,223	40,436	41,349	42,193	42,920	42,459	42,044	43,337
Agricultural economics	712	750	748	783	710	688	680	713
Anthropology (cultural & social)	4,247	4,392	4,593	4,553	4,686	4,501	4,556	4,644
Economics (except agricultural)	3,802	3,856	3,793	3,876	3,783	3,512	3,464	3,499
Geography	1,431	1,582	1,598	1,585	1,561	1,625	1,663	1,703
Linguistics	1,996	2,020	2,066	2,000	2,023	2,017	1,953	1,833
Political science	14,971	15,756	15,584	15,950	15,632	15,404	14,961	15,582
Sociology	5,150	5,568	5,740	5,783	5,785	5,822	5,696	5,739
Sociology/anthropology	534	512	591	554	541	571	522	470
Social sciences, other	5,380	6,000	6,636	7,109	8,199	8,319	8,549	9,154
Engineering, total	17,217	17,683	18,047	18,007	18,245	18,734	19,007	19,843
Aerospace engineering	348	357	358	351	352	371	382	423
Agricultural engineering	144	151	200	202	210	218	243	251
Biomedical engineering	617	698	697	726	733	826	870	1,004
Chemical engineering	1,394	1,499	1,526	1,561	1,642	1,709	1,721	1,726
Civil engineering	3,654	3,858	4,211	4,232	4,300	4,189	4,127	4,180
Electrical engineering	4,277	4,313	4,102	4,088	4,122	4,438	4,747	4,966
Engineering science	305	304	306	297	295	278	331	319
Industrial/manufacturing eng.	2,655	2,593	2,795	2,755	2,714	2,611	2,407	2,423
Mechanical engineering	1,698	1,774	1,823	1,677	1,636	1,779	1,762	1,787
Metallurgical/materials eng.	1,069	1,027	1,069	1,059	1,060	1,094	1,115	1,072
Nuclear engineering	186	185	153	145	153	143	134	144
Engineering, other	870	924	807	914	1,028	1,078	1,168	1,548
Total, health fields	49,160	53,344	57,039	60,238	60,869	60,813	61,317	62,265
Clinical fields	1,419	1,544	1,740	1,761	1,738	1,816	1,783	1,844
Dental sciences	349	347	380	432	460	530	536	516
Nursing	22,045	23,496	25,491	26,744	25,623	24,825	23,432	22,807
Pharmaceutical sciences	1,180	1,273	1,302	1,284	1,323	1,287	1,364	1,690
Preventive medicine/community health	5,403	6,084	6,351	6,649	6,277	6,236	7,160	7,504
Speech pathology/audiology	9,014	9,884	10,538	11,109	11,931	12,245	12,267	12,596
Veterinary sciences	406	407	408	439	441	589	628	681
Other health fields	9,344	10,309	10,829	11,820	13,076	13,285	14,147	14,627

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 13. Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1992-1999

Field, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	493,624	504,409	504,516	499,750	494,195	487,279	485,724	493,425
Total U.S. citizens and permanent residents	379,707	394,085	397,964	396,863	391,210	383,408	378,667	378,058
Black, non-Hispanic	18,487	20,434	21,175	22,154	22,975	23,562	24,262	25,260
American Indian/Alaskan Native	1,515	1,605	1,724	1,856	1,906	1,969	2,036	2,000
Asian/Pacific Islander	23,971	26,853	29,618	29,362	29,926	30,373	31,612	32,721
Hispanic	14,625	16,051	15,963	17,238	17,742	18,156	18,765	20,338
White, non-Hispanic	302,167	309,229	311,974	304,538	297,275	286,689	279,557	275,514
Other or unknown	18,942	19,913	17,510	21,715	21,386	22,659	22,435	22,225
Students with temporary visas	113,917	110,324	106,552	102,887	102,985	103,871	107,057	115,367
Total, science and engineering	430,635	435,869	431,233	422,533	415,258	407,656	404,903	411,308
Total U.S. citizens and permanent residents	321,171	330,148	329,073	323,993	317,101	308,665	302,875	301,404
Black, non-Hispanic	15,445	17,116	17,610	18,282	19,068	19,346	19,654	20,341
American Indian/Alaskan Native	1,243	1,309	1,382	1,516	1,538	1,600	1,607	1,557
Asian/Pacific Islander	21,751	24,059	26,475	25,904	25,928	26,007	26,709	27,562
Hispanic	12,246	13,381	13,277	14,111	14,568	14,980	15,476	16,514
White, non-Hispanic	253,425	256,840	255,701	245,893	238,062	228,018	220,689	216,865
Other or unknown	17,061	17,443	14,628	18,287	17,937	18,714	18,740	18,565
Students with temporary visas	109,464	105,721	102,160	98,540	98,157	98,991	102,028	109,904
Sciences, total	312,632	319,035	318,240	315,360	312,069	306,586	304,934	309,840
Total U.S. citizens and permanent residents	244,622	252,592	253,066	252,286	248,949	244,069	240,668	241,353
Black, non-Hispanic	13,069	14,556	14,826	15,426	16,171	16,468	16,832	17,375
American Indian/Alaskan Native	1,066	1,100	1,141	1,286	1,305	1,361	1,371	1,315
Asian/Pacific Islander	13,249	15,063	16,688	16,886	17,488	17,874	18,704	19,408
Hispanic	9,783	10,686	10,414	11,303	11,632	12,168	12,576	13,595
White, non-Hispanic	196,087	199,444	199,724	193,971	188,986	181,963	176,629	174,851
Other or unknown	11,368	11,743	10,273	13,414	13,367	14,235	14,556	14,809
Students with temporary visas	68,010	66,443	65,174	63,074	63,120	62,517	64,266	68,487
Physical sciences	35,348	35,318	34,449	33,388	32,324	31,078	30,571	30,689
Total U.S. citizens and permanent residents	22,543	23,066	22,740	21,979	21,146	20,183	19,833	19,567
Black, non-Hispanic	807	843	856	897	986	952	913	903
American Indian/Alaskan Native	67	81	67	76	60	70	64	69
Asian/Pacific Islander	1,615	1,973	1,923	1,780	1,743	1,637	1,760	1,683
Hispanic	680	747	675	731	742	782	832	891
White, non-Hispanic	18,527	18,582	18,422	17,475	16,750	15,741	15,214	15,048
Other or unknown	847	840	797	1,020	865	1,001	1,050	973
Students with temporary visas	12,805	12,252	11,709	11,409	11,178	10,895	10,738	11,122
Earth, atmos., & ocean sci.	15,333	15,731	15,968	15,722	15,185	14,565	14,259	14,082
Total U.S. citizens and permanent residents	12,329	12,723	12,704	12,775	12,419	12,050	11,760	11,560
Black, non-Hispanic	201	224	202	215	219	203	202	213
American Indian/Alaskan Native	34	45	48	52	65	82	84	63
Asian/Pacific Islander	383	462	449	419	409	417	424	400
Hispanic	308	370	339	365	374	399	370	382
White, non-Hispanic	10,881	11,085	11,291	11,251	10,875	10,419	10,099	10,022
Other or unknown	522	537	375	473	477	530	581	480
Students with temporary visas	3,004	3,008	3,264	2,947	2,766	2,515	2,499	2,522
Mathematical sciences	20,355	20,000	19,579	18,509	18,015	16,729	16,488	16,254
Total U.S. citizens and permanent residents	13,878	13,866	13,516	12,700	12,254	11,185	11,067	10,332
Black, non-Hispanic	579	710	673	689	711	657	613	594
American Indian/Alaskan Native	27	32	36	70	41	43	34	30
Asian/Pacific Islander	963	1,020	1,208	1,121	1,225	1,052	1,174	1,002
Hispanic	376	415	369	400	425	427	454	446
White, non-Hispanic	10,851	10,572	10,496	9,659	9,201	8,360	8,100	7,662
Other or unknown	1,082	1,117	734	761	651	646	692	598
Students with temporary visas	6,477	6,134	6,063	5,809	5,761	5,544	5,421	5,922

See explanatory information, if any, and SOURCE at end of table.

Table 13: Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1992-1999

Field, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Computer sciences	36,325	36,213	34,158	33,458	34,626	35,991	38,027	42,560
Total U.S. citizens and permanent residents	24,209	24,304	23,096	22,663	22,779	23,074	23,605	25,405
Black, non-Hispanic	1,106	1,167	1,182	1,155	1,276	1,300	1,355	1,501
American Indian/Alaskan Native	72	70	44	56	54	60	92	75
Asian/Pacific Islander	3,389	3,557	4,046	4,043	4,266	4,626	5,219	6,156
Hispanic	706	695	631	664	700	723	754	872
White, non-Hispanic	16,951	16,804	15,752	14,773	14,479	14,062	13,948	14,423
Other or unknown	1,985	2,011	1,441	1,972	2,004	2,303	2,237	2,378
Students with temporary visas	12,116	11,909	11,062	10,795	11,847	12,917	14,422	17,155
Agricultural sciences	11,841	11,988	12,273	12,450	12,009	11,893	11,877	12,036
Total U.S. citizens and permanent residents	8,663	8,850	9,132	9,353	9,060	9,167	9,280	9,545
Black, non-Hispanic	210	238	240	298	272	232	313	277
American Indian/Alaskan Native	40	35	38	60	49	62	70	68
Asian/Pacific Islander	215	271	281	280	283	302	305	306
Hispanic	279	309	268	289	374	408	387	428
White, non-Hispanic	7,691	7,791	8,032	8,049	7,813	7,816	7,911	8,196
Other or unknown	228	206	273	377	269	347	294	270
Students with temporary visas	3,178	3,138	3,141	3,097	2,949	2,726	2,597	2,491
Biological sciences	54,180	56,458	58,152	58,775	58,170	57,140	57,124	57,320
Total U.S. citizens and permanent residents	41,359	43,527	45,319	46,548	46,658	45,952	45,652	46,013
Black, non-Hispanic	1,493	1,737	1,709	1,879	2,010	2,167	2,175	2,258
American Indian/Alaskan Native	141	157	183	205	200	198	192	187
Asian/Pacific Islander	2,822	3,456	3,954	4,302	4,465	4,481	4,439	4,461
Hispanic	1,459	1,649	1,651	1,824	1,848	1,986	2,047	2,181
White, non-Hispanic	34,230	35,096	36,392	36,525	36,345	35,022	34,584	34,529
Other or unknown	1,214	1,432	1,430	1,813	1,790	2,098	2,215	2,397
Students with temporary visas	12,821	12,931	12,833	12,227	11,512	11,188	11,472	11,307
Psychology	53,484	54,557	54,554	53,641	53,122	53,126	52,557	51,874
Total U.S. citizens and permanent residents	51,551	52,676	52,211	51,554	51,149	51,118	50,371	49,634
Black, non-Hispanic	2,758	3,284	3,529	3,359	3,452	3,644	3,813	3,787
American Indian/Alaskan Native	290	289	317	330	359	341	311	303
Asian/Pacific Islander	1,278	1,470	1,583	1,598	1,757	1,909	2,019	2,044
Hispanic	2,371	2,562	2,485	2,799	2,937	3,075	3,228	3,575
White, non-Hispanic	42,426	42,662	42,062	40,146	39,327	38,724	37,622	36,356
Other or unknown	2,428	2,409	2,235	3,322	3,317	3,425	3,378	3,569
Students with temporary visas	1,933	1,881	2,343	2,087	1,973	2,008	2,186	2,240
Social sciences	85,766	88,770	89,107	89,417	88,618	86,064	84,031	85,025
Total U.S. citizens and permanent residents	70,090	73,580	74,348	74,714	73,484	71,340	69,100	69,297
Black, non-Hispanic	5,915	6,353	6,435	6,934	7,245	7,313	7,448	7,842
American Indian/Alaskan Native	395	391	408	437	477	505	524	520
Asian/Pacific Islander	2,584	2,854	3,244	3,343	3,340	3,450	3,364	3,356
Hispanic	3,604	3,939	3,996	4,231	4,232	4,368	4,504	4,820
White, non-Hispanic	54,530	56,852	57,277	56,093	54,196	51,819	49,151	48,615
Other or unknown	3,062	3,191	2,988	3,676	3,994	3,885	4,109	4,144
Students with temporary visas	15,676	15,190	14,759	14,703	15,134	14,724	14,931	15,728
Engineering, total	118,003	116,834	112,993	107,173	103,189	101,070	99,969	101,468
Total U.S. citizens and permanent residents	76,549	77,556	76,007	71,707	68,152	64,596	62,207	60,051
Black, non-Hispanic	2,376	2,560	2,784	2,856	2,897	2,878	2,822	2,966
American Indian/Alaskan Native	177	209	241	230	233	239	236	242
Asian/Pacific Islander	8,502	8,996	9,787	9,018	8,440	8,133	8,005	8,154
Hispanic	2,463	2,695	2,863	2,808	2,936	2,812	2,900	2,919
White, non-Hispanic	57,338	57,396	55,977	51,922	49,076	46,055	44,060	42,014
Other or unknown	5,693	5,700	4,355	4,873	4,570	4,479	4,184	3,756
Students with temporary visas	41,454	39,278	36,986	35,466	35,037	36,474	37,762	41,417
Chemical engineering	7,397	7,516	7,608	7,424	7,373	7,247	7,060	6,849
Total U.S. citizens and permanent residents	4,122	4,348	4,601	4,473	4,505	4,403	4,189	3,851
Black, non-Hispanic	144	159	157	174	189	170	185	147
American Indian/Alaskan Native	15	14	18	21	30	18	21	16
Asian/Pacific Islander	379	461	524	458	482	512	469	486
Hispanic	176	180	171	202	200	142	179	184
White, non-Hispanic	3,236	3,388	3,521	3,420	3,381	3,346	3,105	2,785
Other or unknown	172	146	210	198	223	215	230	233
Students with temporary visas	3,275	3,168	3,007	2,951	2,868	2,844	2,871	2,998

See explanatory information, if any, and SOURCE at end of table.

Table 13. Graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1992-1999

Field, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Civil engineering	19,572	19,583	19,925	19,218	18,528	17,156	16,481	16,190
Total U.S. citizens and permanent residents	12,734	13,299	13,967	13,559	13,263	12,065	11,532	10,775
Black, non-Hispanic	343	393	424	471	491	444	411	451
American Indian/Alaskan Native	31	43	38	42	48	58	43	56
Asian/Pacific Islander	1,043	1,167	1,339	1,322	1,254	1,050	1,097	924
Hispanic	478	550	551	593	712	694	723	698
White, non-Hispanic	10,196	10,415	11,029	10,434	9,983	9,189	8,646	8,069
Other or unknown	643	731	586	697	775	630	612	577
Students with temporary visas	6,838	6,284	5,958	5,659	5,265	5,091	4,949	5,415
Electrical engineering	36,428	35,290	33,020	30,721	29,702	30,548	31,129	31,368
Total U.S. citizens and permanent residents	23,581	22,839	21,612	19,504	18,332	17,903	17,328	16,280
Black, non-Hispanic	773	864	861	821	777	871	872	885
American Indian/Alaskan Native	38	43	52	51	50	46	33	47
Asian/Pacific Islander	3,765	3,746	4,098	3,707	3,543	3,487	3,435	3,488
Hispanic	748	842	855	784	793	810	812	768
White, non-Hispanic	15,938	15,606	14,293	12,606	11,733	11,065	10,679	9,826
Other or unknown	2,319	1,738	1,453	1,535	1,436	1,624	1,497	1,266
Students with temporary visas	12,847	12,451	11,408	11,217	11,370	12,645	13,801	15,088
Industrial engineering	13,525	13,596	13,661	13,143	12,399	11,736	10,995	10,886
Total U.S. citizens and permanent residents	9,682	10,153	10,095	9,819	9,102	8,419	7,673	7,349
Black, non-Hispanic	444	440	507	527	521	478	455	459
American Indian/Alaskan Native	42	36	23	23	21	23	30	36
Asian/Pacific Islander	794	863	852	837	737	731	632	714
Hispanic	297	332	375	374	410	391	355	395
White, non-Hispanic	7,375	7,448	7,483	7,025	6,676	6,227	5,608	5,261
Other or unknown	730	1,034	855	1,033	737	569	593	484
Students with temporary visas	3,843	3,443	3,566	3,324	3,297	3,317	3,322	3,537
Mechanical engineering	18,637	18,477	17,761	16,363	15,509	15,045	14,696	14,956
Total U.S. citizens and permanent residents	11,875	12,199	11,940	10,905	10,026	9,351	9,046	8,760
Black, non-Hispanic	320	336	398	403	417	428	412	375
American Indian/Alaskan Native	24	30	54	44	35	35	25	33
Asian/Pacific Islander	1,179	1,307	1,421	1,225	1,073	947	973	1,008
Hispanic	394	382	453	422	383	360	389	388
White, non-Hispanic	9,035	9,029	8,893	8,059	7,461	6,979	6,657	6,491
Other or unknown	923	1,115	721	752	657	602	590	465
Students with temporary visas	6,762	6,278	5,821	5,458	5,483	5,694	5,650	6,196
Other engineering	22,444	22,372	21,018	20,304	19,678	19,338	19,608	21,219
Total U.S. citizens and permanent residents	14,555	14,718	13,792	13,447	12,924	12,455	12,439	13,036
Black, non-Hispanic	352	368	437	460	502	487	487	649
American Indian/Alaskan Native	27	43	56	49	49	59	84	54
Asian/Pacific Islander	1,342	1,452	1,553	1,469	1,351	1,406	1,399	1,534
Hispanic	370	409	458	433	438	415	442	486
White, non-Hispanic	11,558	11,510	10,758	10,378	9,842	9,249	9,365	9,582
Other or unknown	906	936	530	658	742	839	662	731
Students with temporary visas	7,889	7,654	7,226	6,857	6,754	6,883	7,169	8,183
Total, health fields	62,989	68,540	73,283	77,217	78,937	79,623	80,821	82,117
Total U.S. citizens and permanent residents	58,536	63,937	68,891	72,870	74,109	74,743	75,792	76,654
Black, non-Hispanic	3,042	3,318	3,565	3,872	3,907	4,216	4,608	4,919
American Indian/Alaskan Native	272	296	342	340	368	369	429	443
Asian/Pacific Islander	2,220	2,794	3,143	3,458	3,998	4,366	4,903	5,159
Hispanic	2,379	2,670	2,686	3,127	3,174	3,176	3,289	3,824
White, non-Hispanic	48,742	52,389	56,273	58,645	59,213	58,671	58,868	58,649
Other or unknown	1,881	2,470	2,882	3,428	3,449	3,945	3,695	3,660
Students with temporary visas	4,453	4,603	4,392	4,347	4,828	4,880	5,029	5,463

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1995-1999

Field and year	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields:								
1995	279,311	8,932	833	17,483	8,174	157,441	11,997	74,451
1996	271,665	8,971	863	17,268	8,445	151,269	11,346	73,503
1997	264,439	9,115	890	17,118	8,559	143,679	11,933	73,145
1998	260,962	9,245	891	17,556	8,756	138,264	11,841	74,409
1999	262,692	9,555	851	17,748	9,207	134,438	11,389	79,504
Total, science and engineering fields:								
1995	262,332	8,211	753	16,372	7,404	146,059	11,170	72,363
1996	253,597	8,251	768	15,948	7,649	139,367	10,588	71,026
1997	245,629	8,332	804	15,687	7,697	131,495	10,924	70,690
1998	241,458	8,324	797	15,895	7,840	125,740	10,904	71,958
1999	242,840	8,592	745	16,047	8,223	121,860	10,419	76,954
Sciences, total:								
1995	173,166	6,254	572	9,135	5,208	103,011	7,058	41,928
1996	168,653	6,297	578	9,290	5,382	98,909	6,795	41,402
1997	163,293	6,370	624	9,336	5,524	93,721	7,310	40,408
1998	160,496	6,382	624	9,725	5,627	89,857	7,473	40,808
1999	161,215	6,603	570	9,903	5,991	87,721	7,417	43,010
Physical sciences:								
1995	24,308	529	57	1,159	469	12,998	722	8,374
1996	23,282	550	42	1,096	455	12,381	621	8,137
1997	22,237	508	46	1,044	499	11,567	689	7,884
1998	21,820	481	41	1,150	525	11,046	759	7,818
1999	21,784	501	40	1,047	552	10,876	689	8,079
Earth, atmospheric, & ocean sciences:								
1995	10,286	116	31	260	223	7,204	302	2,150
1996	9,737	115	36	249	230	6,821	292	1,994
1997	9,146	105	47	253	236	6,377	332	1,796
1998	8,690	103	44	238	202	6,033	334	1,736
1999	8,362	112	32	208	196	5,881	270	1,663
Mathematical sciences:								
1995	12,248	385	43	669	248	6,230	520	4,153
1996	11,794	368	24	702	266	5,910	425	4,099
1997	10,857	347	29	622	254	5,322	438	3,845
1998	10,499	339	16	704	276	5,059	467	3,638
1999	10,213	324	12	565	270	4,800	379	3,863
Computer sciences:								
1995	25,325	652	41	2,706	502	11,690	1,535	8,199
1996	25,829	716	40	2,834	523	11,439	1,491	8,786
1997	26,110	765	43	2,978	513	10,919	1,658	9,234
1998	27,225	764	68	3,299	559	10,750	1,588	10,197
1999	29,990	824	51	3,834	659	10,889	1,711	12,022
Agricultural sciences:								
1995	7,985	151	30	151	155	5,031	235	2,232
1996	7,551	132	23	143	206	4,778	168	2,101
1997	7,321	105	34	164	246	4,678	189	1,905
1998	7,152	149	45	155	210	4,662	161	1,770
1999	7,121	135	46	139	222	4,759	160	1,660
Biological sciences:								
1995	29,913	691	87	2,166	855	18,401	963	6,750
1996	29,387	725	93	2,257	852	18,300	943	6,217
1997	28,510	780	91	2,171	901	17,479	1,058	6,030
1998	28,028	787	88	2,101	924	17,025	1,128	5,975
1999	27,560	786	80	2,102	961	16,637	1,181	5,813
Psychology:								
1995	15,877	817	93	416	762	11,983	949	857
1996	15,375	808	111	465	807	11,574	902	708
1997	15,507	908	118	510	860	11,316	1,045	750
1998	15,095	887	87	551	881	10,915	976	798
1999	14,497	915	88	537	958	10,223	986	790

See explanatory information, if any, and SOURCE at end of table.

Table 14. Male graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1995-1999

Field and year	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Social sciences:								
1995	47,224	2,913	190	1,608	1,994	29,474	1,832	9,213
1996	45,698	2,883	209	1,544	2,043	27,706	1,953	9,360
1997	43,605	2,852	216	1,594	2,015	26,063	1,901	8,964
1998	41,987	2,872	235	1,527	2,050	24,367	2,060	8,876
1999	41,688	3,006	221	1,471	2,173	23,656	2,041	9,120
Engineering:								
1995	89,166	1,957	181	7,237	2,196	43,048	4,112	30,435
1996	84,944	1,954	190	6,658	2,267	40,458	3,793	29,624
1997	82,336	1,962	180	6,351	2,173	37,774	3,614	30,282
1998	80,962	1,942	173	6,170	2,213	35,883	3,431	31,150
1999	81,625	1,989	175	6,144	2,232	34,139	3,002	33,944
Health fields:								
1995	16,979	721	80	1,111	770	11,382	827	2,088
1996	18,068	720	95	1,320	796	11,902	758	2,477
1997	18,810	783	86	1,431	862	12,184	1,009	2,455
1998	19,504	921	94	1,661	916	12,524	937	2,451
1999	19,852	963	106	1,701	984	12,578	970	2,550

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 15. Female graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1995-1999

Field and year	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields:								
1995	220,439	13,222	1,023	11,879	9,064	147,097	9,718	28,436
1996	222,530	14,004	1,043	12,658	9,297	146,006	10,040	29,482
1997	222,840	14,447	1,079	13,255	9,597	143,010	10,726	30,726
1998	224,762	15,017	1,145	14,056	10,009	141,293	10,594	32,648
1999	230,733	15,705	1,149	14,973	11,131	141,076	10,836	35,863
Total, science and engineering fields:								
1995	160,201	10,071	763	9,532	6,707	99,834	7,117	26,177
1996	161,661	10,817	770	9,980	6,919	98,695	7,349	27,131
1997	162,027	11,014	796	10,320	7,283	96,523	7,790	28,301
1998	163,445	11,330	810	10,814	7,636	94,949	7,836	30,070
1999	168,468	11,749	812	11,515	8,291	95,005	8,146	32,950
Sciences, total:								
1995	142,194	9,172	714	7,751	6,095	90,960	6,356	21,146
1996	143,416	9,874	727	8,198	6,250	90,077	6,572	21,718
1997	143,293	10,098	737	8,538	6,644	88,242	6,925	22,109
1998	144,438	10,450	747	8,979	6,949	86,772	7,083	23,458
1999	148,625	10,772	745	9,505	7,604	87,130	7,392	25,477
Physical sciences:								
1995	9,080	368	19	621	262	4,477	298	3,035
1996	9,042	436	18	647	287	4,369	244	3,041
1997	8,841	444	24	593	283	4,174	312	3,011
1998	8,751	432	23	610	307	4,168	291	2,920
1999	8,905	402	29	636	339	4,172	284	3,043
Earth, atmospheric, & ocean sciences:								
1995	5,436	99	21	159	142	4,047	171	797
1996	5,448	104	29	160	144	4,054	185	772
1997	5,419	98	35	164	163	4,042	198	719
1998	5,569	99	40	186	168	4,066	247	763
1999	5,720	101	31	192	186	4,141	210	859
Mathematical sciences:								
1995	6,261	304	27	452	152	3,429	241	1,656
1996	6,221	343	17	523	159	3,291	226	1,662
1997	5,872	310	14	430	173	3,038	208	1,699
1998	5,989	274	18	470	178	3,041	225	1,783
1999	6,041	270	18	437	176	2,862	219	2,059
Computer sciences:								
1995	8,133	503	15	1,337	162	3,083	437	2,596
1996	8,797	560	14	1,432	177	3,040	513	3,061
1997	9,881	535	17	1,648	210	3,143	645	3,683
1998	10,802	591	24	1,920	195	3,198	649	4,225
1999	12,570	677	24	2,322	213	3,534	667	5,133
Agricultural sciences:								
1995	4,465	147	30	129	134	3,018	142	865
1996	4,458	140	26	140	168	3,035	101	848
1997	4,572	127	28	138	162	3,138	158	821
1998	4,725	164	25	150	177	3,249	133	827
1999	4,915	142	22	167	206	3,437	110	831
Biological sciences:								
1995	28,862	1,188	118	2,136	969	18,124	850	5,477
1996	28,783	1,285	107	2,208	996	18,045	847	5,295
1997	28,630	1,387	107	2,310	1,085	17,543	1,040	5,158
1998	29,096	1,388	104	2,338	1,123	17,559	1,087	5,497
1999	29,760	1,472	107	2,359	1,220	17,892	1,216	5,494
Psychology:								
1995	37,764	2,542	237	1,182	2,037	28,163	2,373	1,230
1996	37,747	2,644	248	1,292	2,130	27,753	2,415	1,265
1997	37,619	2,736	223	1,399	2,215	27,408	2,380	1,258
1998	37,462	2,926	224	1,468	2,347	26,707	2,402	1,388
1999	37,377	2,872	215	1,507	2,617	26,133	2,583	1,450

See explanatory information, if any, and SOURCE at end of table.

Table 15. Female graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1995-1999

Field and year	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Social sciences:								
1995	42,193	4,021	247	1,735	2,237	26,619	1,844	5,490
1996	42,920	4,362	268	1,796	2,189	26,490	2,041	5,774
1997	42,459	4,461	289	1,856	2,353	25,756	1,984	5,760
1998	42,044	4,576	289	1,837	2,454	24,784	2,049	6,055
1999	43,337	4,836	299	1,885	2,647	24,959	2,103	6,608
Engineering:								
1995	18,007	899	49	1,781	612	8,874	761	5,031
1996	18,245	943	43	1,782	669	8,618	777	5,413
1997	18,734	916	59	1,782	639	8,281	865	6,192
1998	19,007	880	63	1,835	687	8,177	753	6,612
1999	19,843	977	67	2,010	687	7,875	754	7,473
Health fields:								
1995	60,238	3,151	260	2,347	2,357	47,263	2,601	2,259
1996	60,869	3,187	273	2,678	2,378	47,311	2,691	2,351
1997	60,813	3,433	283	2,935	2,314	46,487	2,936	2,425
1998	61,317	3,687	335	3,242	2,373	46,344	2,758	2,578
1999	62,265	3,956	337	3,458	2,840	46,071	2,690	2,913

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 16. Graduate students in science, engineering, and health fields in public institutions,
by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	345,728	352,941	353,587	350,107	345,452	340,150	338,572	344,399
Total, science and engineering fields	299,535	303,340	300,510	294,718	288,166	282,613	280,613	285,058
Sciences, total	216,743	221,018	220,742	218,838	215,293	211,371	210,136	213,024
Physical sciences, total	25,687	25,773	25,128	24,527	23,646	22,721	22,555	22,542
Astronomy	561	579	591	556	525	471	509	511
Chemistry	14,426	14,649	14,435	14,402	14,179	13,837	13,766	13,605
Physics	10,283	10,090	9,618	9,114	8,561	8,041	7,842	7,860
Physical sciences, n.e.c.	417	455	484	455	381	372	438	566
Earth, atmos., & ocean sci., total	12,669	13,003	13,115	13,172	12,790	12,346	12,050	11,865
Atmospheric sciences	1,064	1,094	1,090	1,047	1,066	1,068	942	896
Geosciences	6,356	6,384	6,327	6,279	6,063	5,802	5,519	5,493
Oceanography	2,076	2,134	2,294	2,263	2,184	2,067	2,162	2,201
Earth, atmos., & ocean sci., n.e.c.	3,173	3,391	3,404	3,583	3,477	3,409	3,427	3,275
Mathematical sciences	15,910	15,645	15,204	14,253	13,878	12,735	12,523	12,352
Computer sciences	21,579	21,559	20,590	20,558	20,882	22,195	23,601	26,530
Agricultural sciences	11,346	11,504	11,711	11,925	11,517	11,430	11,387	11,566
Biological sciences, total	39,748	41,403	42,529	42,486	42,006	41,077	41,154	41,103
Anatomy	733	750	797	770	784	770	691	673
Biochemistry	3,655	3,701	3,914	3,891	3,730	3,610	3,633	3,585
Biology	10,313	10,795	10,754	10,621	10,979	10,878	10,617	10,503
Biometry/epidemiology	1,562	1,728	1,732	1,724	1,777	1,734	2,138	2,189
Biophysics	417	426	415	472	459	419	417	416
Botany	2,559	2,573	2,626	2,469	2,367	2,258	2,189	2,119
Cell biology	1,833	2,099	2,293	2,367	2,380	2,367	2,533	2,668
Ecology	1,123	1,234	1,387	1,490	1,450	1,473	1,511	1,509
Entomology/parasitology	1,127	1,186	1,193	1,179	1,171	1,101	1,109	1,087
Genetics	1,133	1,147	1,083	1,077	1,119	1,144	1,075	1,108
Microbio., immunology, & virology	3,556	3,582	3,617	3,554	3,451	3,366	3,354	3,318
Nutrition	3,450	3,523	3,731	3,884	3,786	3,632	3,620	3,591
Pathology	1,007	1,012	1,079	1,056	1,059	1,063	1,074	1,053
Pharmacology	1,757	1,871	1,979	1,872	1,797	1,750	1,829	1,848
Physiology	1,526	1,559	1,521	1,548	1,439	1,373	1,341	1,341
Zoology	1,997	1,976	1,951	1,914	1,780	1,598	1,558	1,496
Biosciences, n.e.c.	2,000	2,241	2,457	2,598	2,478	2,541	2,465	2,599
Psychology	29,642	29,574	29,503	29,197	28,203	28,497	28,101	27,479
Social sciences, total	60,162	62,557	62,962	62,720	62,371	60,370	58,765	59,587
Agricultural economics	2,404	2,303	2,174	2,205	2,031	1,973	1,928	1,949
Anthropology (cultural & social)	5,205	5,457	5,646	5,602	5,678	5,494	5,514	5,640
Economics (except agricultural)	8,747	8,768	8,598	8,355	7,953	7,253	6,896	6,923
Geography	3,799	4,052	4,168	4,077	4,013	3,994	4,018	3,925
Linguistics	2,442	2,486	2,419	2,383	2,281	2,228	2,149	2,063
Political science	21,871	22,625	21,983	21,869	21,115	20,340	19,373	20,067
Sociology	6,880	7,167	7,243	7,271	7,220	7,210	7,066	6,842
Sociology/anthropology	690	738	796	749	737	779	693	616
Social sciences, other	8,124	8,961	9,935	10,209	11,343	11,099	11,128	11,562
Engineering, total	82,792	82,322	79,768	75,880	72,873	71,242	70,477	72,034
Aerospace engineering	3,199	3,126	2,917	2,598	2,435	2,332	2,311	2,339
Agricultural engineering	967	970	1,006	981	959	893	880	888
Biomedical engineering	1,535	1,639	1,641	1,656	1,700	1,844	1,842	1,991
Chemical engineering	5,413	5,532	5,592	5,440	5,348	5,173	5,056	4,853
Civil engineering	14,752	14,743	14,948	14,534	14,091	13,163	12,615	12,659
Electrical engineering	23,578	23,042	21,913	20,610	19,489	20,131	20,225	21,090
Engineering science	1,470	1,432	1,368	1,294	1,252	1,122	1,069	1,110
Industrial/manufacturing eng.	9,095	9,228	9,193	8,593	8,105	7,591	7,494	7,798
Mechanical engineering	13,656	13,489	12,992	12,144	11,595	11,166	11,117	11,235
Metallurgical/materials eng.	3,769	3,741	3,667	3,454	3,313	3,269	3,218	3,100
Nuclear engineering	1,081	1,094	1,062	975	826	751	715	716
Engineering, other	4,277	4,286	3,469	3,601	3,760	3,807	3,935	4,255
Total, health fields	46,193	49,601	53,077	55,389	57,286	57,537	57,959	59,341
Clinical fields	1,620	1,670	1,845	1,832	1,952	1,972	1,962	2,099
Dental sciences	840	860	919	925	992	1,090	1,125	1,134
Nursing	17,689	19,094	21,232	22,116	21,505	21,139	20,424	19,979
Pharmaceutical sciences	2,249	2,343	2,330	2,255	2,311	2,163	2,202	2,672
Preventive medicine/community health	6,079	6,860	6,929	7,233	7,108	6,977	7,344	7,537
Speech pathology/audiology	8,227	8,800	9,423	9,918	10,778	11,063	10,887	11,395
Veterinary sciences	880	802	807	875	894	1,123	1,139	1,169
Other health fields	8,609	9,172	9,592	10,235	11,746	12,010	12,876	13,356

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 17. Graduate students in science, engineering, and health fields in private institutions,
by detailed field: 1992-1999**

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	147,896	151,468	150,929	149,643	148,743	147,129	147,152	149,026
Total, science and engineering fields	131,100	132,529	130,723	127,815	127,092	125,043	124,290	126,250
Sciences, total	95,889	98,017	97,498	96,522	96,776	95,215	94,798	96,816
Physical sciences, total	9,661	9,545	9,321	8,861	8,678	8,357	8,016	8,147
Astronomy	308	301	382	356	349	307	311	321
Chemistry	5,503	5,482	5,362	5,163	5,148	4,927	4,713	4,809
Physics	3,839	3,751	3,544	3,311	3,167	3,106	2,967	3,009
Physical sciences, n.e.c.	11	11	33	31	14	17	25	8
Earth, atmos., & ocean sci., total	2,664	2,728	2,853	2,550	2,395	2,219	2,209	2,217
Atmospheric sciences	25	18	19	25	20	24	23	17
Geosciences	1,388	1,401	1,414	1,329	1,260	1,195	1,186	1,159
Oceanography	454	477	559	440	414	391	383	407
Earth, atmos., & ocean sci., n.e.c.	797	832	861	756	701	609	617	634
Mathematical sciences	4,445	4,355	4,375	4,256	4,137	3,994	3,965	3,902
Computer sciences	14,746	14,654	13,568	12,900	13,744	13,796	14,426	16,030
Agricultural sciences	495	484	562	525	492	463	490	470
Biological sciences, total	14,432	15,055	15,623	16,289	16,164	16,063	15,970	16,217
Anatomy	258	236	246	238	262	259	256	240
Biochemistry	1,721	1,812	1,718	1,688	1,566	1,513	1,540	1,535
Biology	3,561	3,532	3,466	3,663	3,656	3,765	3,672	3,493
Biometry/epidemiology	803	930	978	1,088	1,224	1,166	1,346	1,386
Biophysics	334	354	379	373	374	329	320	294
Botany	130	141	122	140	137	144	139	142
Cell biology	1,299	1,316	1,511	1,571	1,581	1,679	1,615	1,734
Ecology	178	176	179	190	165	146	144	178
Entomology/parasitology	66	61	70	62	63	60	59	58
Genetics	506	638	616	623	610	616	630	659
Microbio., immunology, & virology	1,416	1,486	1,524	1,518	1,512	1,488	1,515	1,592
Nutrition	709	865	1,016	1,132	1,073	918	810	858
Pathology	449	563	628	614	597	611	506	527
Pharmacology	775	780	860	838	866	847	901	909
Physiology	791	813	857	992	938	925	810	759
Zoology	142	144	141	154	131	132	118	118
Biosciences, n.e.c.	1,294	1,208	1,312	1,405	1,409	1,465	1,589	1,735
Psychology	23,842	24,983	25,051	24,444	24,919	24,629	24,456	24,395
Social sciences, total	25,604	26,213	26,145	26,697	26,247	25,694	25,266	25,438
Agricultural economics	118	112	115	133	86	70	67	65
Anthropology (cultural & social)	1,918	1,904	2,019	2,091	2,095	2,066	2,063	1,993
Economics (except agricultural)	4,505	4,446	4,315	4,318	4,127	3,844	3,805	3,639
Geography	303	326	334	294	318	293	308	325
Linguistics	835	835	860	811	875	840	786	736
Political science	11,926	12,451	12,334	12,429	12,137	11,743	11,455	11,331
Sociology	2,131	2,258	2,255	2,293	2,205	2,203	1,992	2,124
Sociology/anthropology	289	197	191	192	186	169	164	125
Social sciences, other	3,579	3,684	3,722	4,136	4,218	4,466	4,626	5,100
Engineering, total	35,211	34,512	33,225	31,293	30,316	29,828	29,492	29,434
Aerospace engineering	837	814	798	745	773	751	826	1,010
Agricultural engineering	41	48	55	56	53	48	45	46
Biomedical engineering	1,002	1,036	1,109	1,076	1,032	1,003	1,063	1,130
Chemical engineering	1,984	1,984	2,016	1,984	2,025	2,074	2,004	1,996
Civil engineering	4,820	4,840	4,977	4,684	4,437	3,993	3,866	3,531
Electrical engineering	12,850	12,248	11,107	10,111	10,213	10,417	10,904	10,278
Engineering science	748	748	721	661	499	525	632	517
Industrial/manufacturing eng.	4,430	4,368	4,468	4,550	4,294	4,145	3,501	3,088
Mechanical engineering	4,981	4,988	4,769	4,219	3,914	3,879	3,579	3,721
Metallurgical/materials eng.	1,743	1,622	1,524	1,466	1,400	1,380	1,426	1,351
Nuclear engineering	205	212	184	179	154	117	106	114
Engineering, other	1,570	1,604	1,497	1,562	1,522	1,496	1,540	2,652
Total, health fields	16,796	18,939	20,206	21,828	21,651	22,086	22,862	22,776
Clinical fields	1,088	1,227	1,268	1,277	1,193	1,354	1,384	1,391
Dental sciences	281	273	280	326	299	321	301	249
Nursing	5,524	5,687	5,765	6,289	5,883	5,722	5,167	5,089
Pharmaceutical sciences	543	516	557	553	535	547	680	750
Preventive medicine/community health	2,658	3,116	3,530	3,604	3,408	3,404	4,110	4,329
Speech pathology/audiology	1,564	1,940	2,050	2,174	2,195	2,257	2,444	2,258
Veterinary sciences	62	75	68	54	52	52	53	47
Other health fields	5,076	6,105	6,688	7,551	8,086	8,429	8,723	8,663

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 18. Graduate students in science and engineering fields in all institutions,
by field and Carnegie classification: 1992-1999

Carnegie classification and field	1992	1993	1994	1995	1996	1997	1998	1999
All institutions:								
Total, science and eng. fields	430,635	435,869	431,233	422,533	415,258	407,656	404,903	411,308
Sciences, total	312,632	319,035	318,240	315,360	312,069	306,586	304,934	309,840
Physical sciences	35,348	35,318	34,449	33,388	32,324	31,078	30,571	30,589
Earth, atmos., & ocean sci.	15,333	15,731	15,968	15,722	15,185	14,565	14,259	14,082
Mathematical sciences	20,355	20,000	19,579	18,509	18,015	16,729	16,488	16,254
Computer sciences	36,325	36,213	34,158	33,458	34,626	35,991	38,027	42,560
Agricultural sciences	11,841	11,988	12,273	12,450	12,009	11,893	11,877	12,036
Biological sciences	54,180	56,458	58,152	58,775	58,170	57,140	57,124	57,320
Psychology	53,484	54,557	54,554	53,641	53,122	53,126	52,557	51,874
Social sciences	85,766	88,770	89,107	89,417	88,618	86,064	84,031	85,025
Engineering, total	118,003	116,834	112,993	107,173	103,189	101,070	99,969	101,468
Research I:								
Total, science and eng. fields	216,965	219,188	217,257	212,808	207,836	201,726	199,776	203,188
Sciences, total	150,392	152,848	152,792	150,989	148,510	143,665	142,072	144,089
Physical sciences	22,333	22,255	21,758	21,039	20,267	19,539	19,161	19,642
Earth, atmos., & ocean sci.	8,035	8,208	8,233	8,090	7,784	7,400	7,227	7,066
Mathematical sciences	10,496	10,293	10,129	9,809	9,505	8,855	8,631	8,581
Computer sciences	11,389	11,579	11,319	11,225	11,482	11,609	12,230	13,527
Agricultural sciences	7,796	7,892	8,058	8,110	7,907	7,716	7,450	7,353
Biological sciences	32,723	33,804	34,684	34,606	34,182	33,375	33,683	34,441
Psychology	12,378	12,420	12,338	12,227	12,023	11,808	11,701	11,392
Social sciences	45,242	46,397	46,273	45,883	45,360	43,363	41,989	42,087
Engineering, total	66,573	66,340	64,465	61,819	59,326	58,061	57,704	59,099
Research II:								
Total, science and eng. fields	51,587	51,706	50,317	48,733	47,361	45,928	45,844	45,472
Sciences, total	35,201	35,510	34,978	34,410	33,829	32,496	32,542	32,031
Physical sciences	4,509	4,469	4,328	4,165	4,021	3,899	3,773	3,681
Earth, atmos., & ocean sci.	1,998	2,013	2,051	2,001	1,892	1,827	1,760	1,821
Mathematical sciences	2,641	2,507	2,414	2,230	2,101	1,900	1,849	1,700
Computer sciences	3,607	3,612	3,420	3,278	3,540	2,942	3,103	3,618
Agricultural sciences	2,194	2,184	2,209	2,292	2,090	2,122	2,249	2,303
Biological sciences	5,520	5,628	5,793	5,821	5,658	5,710	5,650	5,474
Psychology	4,739	4,631	4,506	4,545	4,348	4,212	4,295	3,990
Social sciences	9,993	10,466	10,257	10,078	10,179	9,884	9,863	9,444
Engineering, total	16,386	16,196	15,339	14,323	13,532	13,432	13,302	13,441
Doctorate-granting:								
Total, science and eng. fields	79,641	81,368	81,696	78,947	79,304	79,371	78,336	80,226
Sciences, total	60,427	62,148	62,776	61,541	61,696	62,028	61,552	62,946
Physical sciences	5,762	5,701	5,565	5,473	5,480	5,192	5,225	5,193
Earth, atmos., & ocean sci.	2,872	2,942	3,059	3,031	2,934	2,664	2,715	2,716
Mathematical sciences	3,937	3,877	3,858	3,522	3,481	3,257	3,202	3,217
Computer sciences	10,987	11,251	10,852	10,516	10,911	11,915	12,279	13,347
Agricultural sciences	778	750	898	882	864	766	865	936
Biological sciences	6,495	6,688	6,912	6,987	7,150	7,067	6,864	6,599
Psychology	13,706	13,930	14,211	13,691	13,298	13,968	13,574	13,612
Social sciences	15,890	17,009	17,421	17,439	17,578	17,199	16,828	17,326
Engineering, total	19,214	19,220	18,920	17,406	17,608	17,343	16,784	17,280

See explanatory information, if any, and SOURCE at end of table.

Table 18. Graduate students in science and engineering fields in all institutions,
by field and Carnegie classification: 1992-1999

Carnegie classification and field	1992	1993	1994	1995	1996	1997	1998	1999
Comprehensive:								
Total, science and eng. fields	65,231	66,228	64,482	64,240	63,178	63,080	63,159	64,489
Sciences, total	52,951	54,498	53,452	53,704	53,215	53,555	53,644	55,211
Physical sciences	2,399	2,521	2,419	2,391	2,245	2,130	2,122	1,819
Earth, atmos., & ocean sci.	1,791	1,942	2,004	2,022	1,970	2,114	2,009	1,908
Mathematical sciences	3,023	3,068	2,952	2,750	2,684	2,496	2,589	2,574
Computer sciences	9,243	8,667	7,560	7,384	7,746	8,611	9,491	11,071
Agricultural sciences	987	1,091	1,040	1,105	1,101	1,250	1,285	1,415
Biological sciences	5,304	5,920	5,976	6,356	6,183	6,084	5,974	5,829
Psychology	16,238	17,066	17,153	16,915	16,977	16,509	16,191	15,856
Social sciences	13,966	14,223	14,348	14,781	14,309	14,361	13,983	14,739
Engineering, total	12,280	11,730	11,030	10,536	9,963	9,525	9,515	9,278
Engineering:								
Total, science and eng. fields	2,178	2,196	2,230	2,337	2,137	2,201	2,107	1,858
Sciences, total	615	633	586	578	540	538	533	508
Physical sciences	118	123	111	77	74	71	58	51
Earth, atmos., & ocean sci.	180	194	181	166	160	166	176	179
Mathematical sciences	14	18	11	8	9	4	8	7
Computer sciences	293	292	275	284	250	256	253	238
Agricultural sciences	0	0	0	1	0	0	0	0
Biological sciences	10	6	8	42	47	41	38	33
Psychology	0	0	0	0	0	0	0	0
Social sciences	0	0	0	0	0	0	0	0
Engineering, total	1,563	1,563	1,644	1,759	1,597	1,663	1,574	1,350
Liberal arts:								
Total, science and eng. fields	2,409	2,305	2,307	2,151	2,038	1,889	1,635	1,706
Sciences, total	2,173	2,097	2,126	1,986	1,893	1,769	1,566	1,631
Physical sciences	119	115	110	102	101	109	95	95
Earth, atmos., & ocean sci.	162	157	160	143	142	155	149	175
Mathematical sciences	36	36	37	30	30	21	23	28
Computer sciences	55	39	26	23	23	18	13	11
Agricultural sciences	86	71	88	60	47	39	28	29
Biological sciences	133	135	135	128	133	129	121	113
Psychology	1,442	1,417	1,450	1,382	1,298	1,198	1,059	1,083
Social sciences	140	127	140	118	119	100	78	97
Engineering, total	236	208	181	165	145	120	69	75
Other:								
Total, science and eng. fields	12,624	12,878	12,944	13,317	13,404	13,461	14,046	14,369
Sciences, total	10,873	11,301	11,530	12,152	12,386	12,535	13,025	13,424
Physical sciences	108	134	158	141	136	138	137	208
Earth, atmos., & ocean sci.	295	275	280	269	303	239	223	217
Mathematical sciences	208	201	178	160	205	196	186	147
Computer sciences	751	773	706	748	674	640	658	748
Agricultural sciences	0	0	0	0	0	0	0	0
Biological sciences	3,995	4,277	4,644	4,835	4,817	4,734	4,794	4,831
Psychology	4,981	5,093	4,896	4,881	5,178	5,431	5,737	5,941
Social sciences	535	548	668	1,118	1,073	1,157	1,290	1,332
Engineering, total	1,751	1,577	1,414	1,165	1,018	926	1,021	945

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 19. Full-time graduate students in science, engineering, and health fields in all institutions,
by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	322,609	329,701	332,149	329,356	328,628	327,310	327,447	334,405
Total, science and engineering fields	290,501	294,022	293,040	287,245	284,131	280,677	278,979	283,915
Sciences, total	216,094	220,252	221,501	219,491	218,302	215,101	213,648	216,083
Physical sciences, total	30,673	30,611	30,043	28,876	27,929	26,865	26,390	26,640
Astronomy	840	848	953	871	854	768	787	808
Chemistry	16,999	17,204	17,104	16,736	16,479	15,992	15,777	15,963
Physics	12,689	12,397	11,766	11,052	10,400	9,923	9,661	9,661
Physical sciences, n.e.c.	145	162	220	217	196	182	165	208
Earth, atmos., & ocean sci., total	10,984	11,351	11,452	11,262	10,797	10,527	10,445	10,492
Atmospheric sciences	959	980	993	959	980	966	856	793
Geosciences	5,885	5,970	5,946	5,796	5,579	5,432	5,214	5,239
Oceanography	2,133	2,177	2,333	2,228	2,074	1,971	2,047	2,130
Earth, atmos., & ocean sci., n.e.c.	2,007	2,224	2,180	2,279	2,164	2,158	2,328	2,330
Mathematical sciences	14,679	14,530	14,226	13,410	12,966	12,144	11,751	11,792
Computer sciences	17,505	17,401	16,701	16,510	17,195	18,335	19,972	22,708
Agricultural sciences	9,454	9,484	9,510	9,633	9,327	9,133	9,015	9,210
Biological sciences, total	44,392	46,487	48,026	48,366	47,782	47,011	47,105	47,268
Anatomy	922	938	947	930	977	968	893	871
Biochemistry	5,045	5,174	5,222	5,229	4,998	4,832	4,906	4,819
Biology	9,678	10,028	10,086	9,973	10,043	10,299	10,036	9,908
Biometry/epidemiology	1,634	1,990	2,056	2,093	2,162	2,005	2,559	2,604
Biophysics	728	755	770	800	807	728	707	681
Botany	2,301	2,353	2,349	2,149	2,130	2,051	1,993	1,950
Cell biology	2,999	3,228	3,632	3,742	3,735	3,728	3,826	4,039
Ecology	997	1,057	1,203	1,304	1,243	1,172	1,202	1,240
Entomology/parasitology	1,016	1,039	1,066	1,041	1,027	995	1,000	971
Genetics	1,526	1,690	1,602	1,619	1,653	1,666	1,621	1,667
Microbio., immunology, & virology	4,460	4,607	4,705	4,673	4,537	4,416	4,455	4,554
Nutrition	2,863	3,045	3,221	3,431	3,482	3,289	3,177	3,153
Pathology	1,165	1,296	1,389	1,382	1,355	1,420	1,339	1,364
Pharmacology	2,400	2,506	2,681	2,539	2,510	2,461	2,562	2,579
Physiology	2,160	2,220	2,221	2,376	2,217	2,102	1,990	1,901
Zoology	1,789	1,747	1,717	1,746	1,628	1,520	1,424	1,382
Biosciences, n.e.c.	2,709	2,814	3,159	3,339	3,278	3,359	3,415	3,585
Psychology	34,162	34,782	35,288	35,222	35,412	35,551	35,148	34,715
Social sciences, total	54,245	55,606	56,255	56,212	56,894	55,535	53,822	53,258
Agricultural economics	2,105	1,963	1,936	1,977	1,784	1,718	1,670	1,686
Anthropology (cultural & social)	5,337	5,429	5,837	5,792	6,003	5,799	5,734	5,814
Economics (except agricultural)	10,184	10,107	9,945	9,743	9,548	8,813	8,564	8,390
Geography	2,801	3,026	3,119	2,962	2,959	2,967	2,908	2,786
Linguistics	2,477	2,538	2,518	2,486	2,530	2,420	2,286	2,182
Political science	17,667	18,372	17,918	17,630	17,669	17,071	16,316	16,138
Sociology	6,469	6,625	6,720	6,692	6,610	6,717	6,460	6,278
Sociology/anthropology	651	639	693	663	620	666	615	518
Social sciences, other	6,554	6,907	7,569	8,267	9,171	9,364	9,269	9,466
Engineering, total	74,407	73,770	71,539	67,754	65,829	65,576	65,331	67,832
Aerospace engineering	3,306	3,262	3,000	2,693	2,576	2,529	2,565	2,645
Agricultural engineering	840	835	879	859	799	748	756	767
Biomedical engineering	2,167	2,269	2,292	2,315	2,316	2,462	2,513	2,742
Chemical engineering	5,946	6,041	6,105	5,957	5,909	5,784	5,601	5,569
Civil engineering	12,454	12,458	12,641	12,248	11,791	11,331	11,079	11,178
Electrical engineering	20,977	20,343	19,385	18,167	17,967	18,854	19,470	20,224
Engineering science	1,415	1,397	1,347	1,243	1,057	1,018	1,114	1,035
Industrial/manufacturing eng.	6,081	5,902	5,910	5,342	5,128	5,075	4,853	5,284
Mechanical engineering	12,383	12,395	11,875	11,128	10,690	10,432	10,073	10,333
Metallurgical/materials eng.	4,274	4,249	4,108	3,880	3,693	3,661	3,702	3,537
Nuclear engineering	1,084	1,070	997	883	771	708	662	641
Engineering, other	3,480	3,549	3,000	3,039	3,132	2,974	2,943	3,877
Total, health fields	32,108	35,679	39,109	42,111	44,497	46,633	48,468	50,490
Clinical fields	2,038	2,217	2,374	2,347	2,395	2,689	2,562	2,744
Dental sciences	988	1,003	1,048	1,096	1,116	1,235	1,219	1,161
Nursing	6,422	6,875	7,914	8,561	8,653	9,035	9,053	9,470
Pharmaceutical sciences	2,063	2,122	2,175	2,138	2,215	2,225	2,258	2,609
Preventive medicine/community health	4,789	5,334	5,425	5,897	5,771	5,828	6,578	6,889
Speech pathology/audiology	7,144	8,109	8,707	9,064	9,649	9,907	10,141	10,479
Veterinary sciences	754	693	696	733	736	985	970	978
Other health fields	7,910	9,326	10,770	12,275	13,962	14,729	15,687	16,160

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 20. Male full-time graduate students in science, engineering, and health fields in all institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	200,819	200,782	197,429	191,202	187,120	183,308	180,909	182,840
Total, science and engineering fields	191,790	190,862	186,674	179,832	174,764	170,144	167,316	169,025
Sciences, total	128,041	128,284	126,710	123,574	120,753	117,078	114,820	114,687
Physical sciences, total	23,173	22,888	22,277	21,220	20,394	19,440	19,034	19,076
Astronomy	659	658	732	657	630	564	566	590
Chemistry	11,482	11,465	11,309	11,004	10,818	10,384	10,278	10,322
Physics	10,945	10,658	10,093	9,431	8,839	8,386	8,086	8,028
Physical sciences, n.e.c.	87	107	143	128	107	106	104	136
Earth, atmos., & ocean sci., total	7,588	7,802	7,663	7,381	6,942	6,664	6,374	6,180
Atmospheric sciences	760	783	775	742	773	729	641	567
Geosciences	4,296	4,338	4,174	4,000	3,780	3,627	3,388	3,315
Oceanography	1,357	1,385	1,476	1,360	1,235	1,150	1,129	1,128
Earth, atmos., & ocean sci., n.e.c.	1,175	1,296	1,238	1,279	1,154	1,158	1,216	1,170
Mathematical sciences	10,250	10,096	9,810	9,213	8,797	8,171	7,797	7,660
Computer sciences	13,949	13,811	13,152	12,860	13,102	13,536	14,520	16,327
Agricultural sciences	6,454	6,294	6,179	6,164	5,860	5,610	5,409	5,403
Biological sciences, total	24,233	24,923	25,496	25,319	24,762	24,035	23,694	23,285
Anatomy	485	497	485	489	531	517	485	463
Biochemistry	2,979	2,979	3,020	2,970	2,845	2,781	2,799	2,703
Biology	5,253	5,421	5,479	5,315	5,317	5,302	5,105	4,959
Biometry/epidemiology	727	887	882	872	884	784	1,006	961
Biophysics	528	533	554	568	567	517	509	479
Botany	1,397	1,409	1,354	1,202	1,164	1,084	1,025	1,002
Cell biology	1,649	1,734	1,971	2,026	1,995	2,026	2,012	2,036
Ecology	557	565	641	705	662	606	607	595
Entomology/parasitology	714	709	710	698	680	636	645	619
Genetics	744	811	748	789	799	774	710	730
Microbio., immunology, & virology	2,363	2,388	2,443	2,419	2,325	2,241	2,254	2,253
Nutrition	949	1,004	986	1,012	1,015	876	850	796
Pathology	656	707	773	751	704	727	666	669
Pharmacology	1,281	1,330	1,403	1,312	1,288	1,293	1,317	1,316
Physiology	1,295	1,326	1,319	1,394	1,314	1,243	1,182	1,091
Zoology	1,101	1,037	987	1,014	920	855	780	774
Biosciences, n.e.c.	1,555	1,586	1,741	1,783	1,752	1,773	1,742	1,839
Psychology	11,171	11,189	11,131	10,903	10,775	10,833	10,509	10,085
Social sciences, total	31,223	31,281	31,002	30,514	30,121	28,789	27,483	26,671
Agricultural economics	1,512	1,358	1,302	1,314	1,195	1,135	1,103	1,093
Anthropology (cultural & social)	2,193	2,258	2,384	2,434	2,435	2,368	2,292	2,295
Economics (except agricultural)	7,343	7,253	7,091	6,844	6,640	6,068	5,844	5,655
Geography	1,851	1,966	2,028	1,869	1,878	1,828	1,762	1,636
Linguistics	1,025	1,053	997	981	943	844	781	782
Political science	10,444	10,595	10,226	9,889	9,755	9,279	8,833	8,494
Sociology	2,912	2,766	2,715	2,719	2,689	2,670	2,467	2,312
Sociology/anthropology	287	308	278	269	258	263	241	180
Social sciences, other	3,656	3,724	3,981	4,195	4,328	4,334	4,160	4,224
Engineering, total	63,749	62,578	59,964	56,258	54,011	53,066	52,496	54,338
Aerospace engineering	3,043	2,971	2,722	2,417	2,293	2,226	2,251	2,320
Agricultural engineering	714	709	704	679	619	560	545	546
Biomedical engineering	1,640	1,685	1,703	1,689	1,678	1,733	1,748	1,840
Chemical engineering	4,849	4,875	4,912	4,734	4,594	4,425	4,209	4,178
Civil engineering	10,126	9,934	9,855	9,431	8,937	8,407	8,125	8,118
Electrical engineering	18,557	17,906	16,996	15,727	15,427	16,043	16,416	16,967
Engineering science	1,230	1,195	1,145	1,061	883	843	892	838
Industrial/manufacturing eng.	4,906	4,729	4,612	4,191	4,037	3,977	3,776	4,198
Mechanical engineering	11,297	11,210	10,658	9,993	9,500	9,143	8,840	9,072
Metallurgical/materials eng.	3,467	3,447	3,268	3,064	2,878	2,806	2,810	2,699
Nuclear engineering	935	926	880	776	649	586	551	530
Engineering, other	2,985	2,991	2,509	2,496	2,516	2,317	2,333	3,032
Total, health fields	9,029	9,920	10,755	11,370	12,356	13,164	13,593	13,815
Clinical fields	1,040	1,110	1,126	1,111	1,156	1,319	1,271	1,351
Dental sciences	684	702	723	726	722	765	764	730
Nursing	464	546	609	707	786	899	990	1,103
Pharmaceutical sciences	1,205	1,196	1,216	1,186	1,217	1,164	1,182	1,305
Preventive medicine/community health	1,886	2,114	2,153	2,244	2,279	2,298	2,448	2,413
Speech pathology/audiology	578	665	690	695	746	785	805	827
Veterinary sciences	439	372	369	378	384	484	448	409
Other health fields	2,733	3,215	3,869	4,323	5,066	5,450	5,685	5,677

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 21. Female full-time graduate students in science, engineering, and health fields
in all institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	121,790	128,919	134,720	138,154	141,508	144,002	146,538	151,565
Total, science and engineering fields	98,711	103,160	106,366	107,413	109,367	110,533	111,663	114,890
Sciences, total	88,053	91,968	94,791	95,917	97,549	98,023	98,828	101,396
Physical sciences, total	7,500	7,723	7,766	7,656	7,535	7,425	7,356	7,564
Astronomy	181	190	221	214	224	204	221	218
Chemistry	5,517	5,739	5,795	5,732	5,661	5,608	5,499	5,641
Physics	1,744	1,739	1,673	1,621	1,561	1,537	1,575	1,633
Physical sciences, n.e.c.	58	55	77	89	89	76	61	72
Earth, atmos., & ocean sci., total	3,396	3,549	3,789	3,881	3,855	3,863	4,071	4,312
Atmospheric sciences	199	197	218	217	207	237	215	226
Geosciences	1,589	1,632	1,772	1,796	1,799	1,805	1,826	1,924
Oceanography	776	792	857	868	839	821	918	1,002
Earth, atmos., & ocean sci., n.e.c.	832	928	942	1,000	1,010	1,000	1,112	1,160
Mathematical sciences	4,429	4,434	4,416	4,197	4,169	3,973	3,954	4,132
Computer sciences	3,556	3,590	3,549	3,650	4,093	4,799	5,452	6,381
Agricultural sciences	3,000	3,190	3,331	3,469	3,467	3,523	3,606	3,807
Biological sciences, total	20,159	21,564	22,530	23,047	23,020	22,976	23,411	23,983
Anatomy	437	441	462	441	446	451	408	408
Biochemistry	2,066	2,195	2,202	2,259	2,153	2,051	2,107	2,116
Biology	4,425	4,607	4,607	4,658	4,726	4,997	4,931	4,949
Biometry/epidemiology	907	1,103	1,174	1,221	1,278	1,221	1,553	1,643
Biophysics	200	222	216	232	240	211	198	202
Botany	904	944	995	947	966	967	968	948
Cell biology	1,350	1,494	1,661	1,716	1,740	1,702	1,814	2,003
Ecology	440	492	562	599	581	566	595	645
Entomology/parasitology	302	330	356	343	347	359	355	352
Genetics	782	879	854	830	854	892	911	937
Microbio., immunology, & virology	2,097	2,219	2,262	2,254	2,212	2,175	2,201	2,301
Nutrition	1,914	2,041	2,235	2,419	2,467	2,413	2,327	2,357
Pathology	509	589	616	631	651	693	673	695
Pharmacology	1,119	1,176	1,278	1,227	1,222	1,168	1,245	1,263
Physiology	865	894	902	982	903	859	608	810
Zoology	688	710	730	732	708	665	644	608
Biosciences, n.e.c.	1,154	1,228	1,418	1,556	1,526	1,586	1,673	1,746
Psychology	22,991	23,593	24,157	24,319	24,637	24,718	24,639	24,630
Social sciences, total	23,022	24,325	25,253	25,698	26,773	26,746	26,339	26,587
Agricultural economics	593	605	634	663	589	583	567	593
Anthropology (cultural & social)	3,144	3,171	3,453	3,358	3,568	3,431	3,442	3,519
Economics (except agricultural)	2,841	2,854	2,854	2,899	2,908	2,745	2,720	2,735
Geography	950	1,060	1,091	1,093	1,081	1,139	1,146	1,150
Linguistics	1,452	1,485	1,521	1,505	1,587	1,576	1,505	1,400
Political science	7,223	7,777	7,692	7,741	7,914	7,792	7,483	7,644
Sociology	3,557	3,859	4,005	3,973	3,921	4,047	3,993	3,966
Sociology/anthropology	364	331	415	394	362	403	374	338
Social sciences, other	2,898	3,183	3,588	4,072	4,843	5,030	5,109	5,242
Engineering, total	10,658	11,192	11,575	11,496	11,818	12,510	12,835	13,494
Aerospace engineering	263	291	278	276	283	303	314	325
Agricultural engineering	126	126	175	180	180	188	211	221
Biomedical engineering	527	584	589	626	638	729	765	902
Chemical engineering	1,097	1,166	1,193	1,223	1,315	1,359	1,392	1,391
Civil engineering	2,328	2,524	2,786	2,817	2,854	2,924	2,954	3,060
Electrical engineering	2,420	2,437	2,389	2,440	2,540	2,811	3,054	3,257
Engineering science	185	202	202	182	174	175	222	197
Industrial/manufacturing eng.	1,175	1,173	1,298	1,151	1,091	1,098	1,077	1,086
Mechanical engineering	1,086	1,185	1,217	1,135	1,190	1,289	1,233	1,261
Metallurgical/materials eng.	807	802	840	816	815	855	892	838
Nuclear engineering	149	144	117	107	122	122	111	111
Engineering, other	495	558	491	543	616	657	610	845
Total, health fields	23,079	25,759	28,354	30,741	32,141	33,469	34,875	36,675
Clinical fields	998	1,107	1,248	1,236	1,239	1,370	1,291	1,393
Dental sciences	304	301	325	370	394	470	455	431
Nursing	5,958	6,329	7,305	7,854	7,867	8,136	8,063	8,367
Pharmaceutical sciences	858	926	959	952	998	1,061	1,076	1,304
Preventive medicine/community health	2,903	3,220	3,272	3,653	3,492	3,530	4,130	4,476
Speech pathology/audiology	6,566	7,444	8,017	8,369	8,903	9,122	9,336	9,652
Veterinary sciences	315	321	327	355	352	501	522	569
Other health fields	5,177	6,111	6,901	7,952	8,896	9,279	10,002	10,483

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 22. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1992-1999

Field, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	322,609	329,701	332,149	329,356	328,628	327,310	327,447	334,405
Total U.S. citizens and permanent residents	225,890	236,344	242,324	242,644	241,251	238,631	236,454	236,353
Black, non-Hispanic	10,220	11,385	11,965	12,506	12,992	13,569	13,783	13,971
American Indian/Alaskan Native	1,014	1,062	1,137	1,254	1,306	1,361	1,339	1,296
Asian/Pacific Islander	14,714	16,945	19,178	19,080	19,496	20,051	20,937	21,633
Hispanic	9,077	9,797	9,877	11,042	11,306	11,547	11,955	12,877
White, non-Hispanic	181,702	187,154	191,405	188,003	185,822	180,764	177,302	175,653
Other or unknown	9,163	10,001	8,762	10,759	10,329	11,339	11,138	10,923
Students with temporary visas	96,719	93,357	89,825	86,712	87,377	88,679	90,993	98,052
Total, science and engineering	290,501	294,022	293,040	287,245	284,131	280,677	278,979	283,915
Total U.S. citizens and permanent residents	197,462	204,472	206,839	204,153	200,717	195,975	191,947	190,146
Black, non-Hispanic	8,904	9,901	10,342	10,667	10,983	11,405	11,304	11,227
American Indian/Alaskan Native	847	896	959	1,055	1,086	1,124	1,098	1,029
Asian/Pacific Islander	13,316	15,197	17,171	16,774	16,805	17,048	17,554	18,065
Hispanic	7,595	8,200	8,182	9,079	9,274	9,552	9,891	10,338
White, non-Hispanic	158,424	161,311	162,774	157,502	153,831	147,458	142,741	140,377
Other or unknown	8,376	8,967	7,411	9,076	8,738	9,388	9,359	9,110
Students with temporary visas	93,039	89,550	86,201	83,092	83,414	84,702	87,032	93,769
Sciences, total	216,094	220,252	221,501	219,491	218,302	215,101	213,648	216,083
Total U.S. citizens and permanent residents	157,593	163,283	165,698	165,571	164,255	161,161	158,620	157,900
Black, non-Hispanic	7,545	8,411	8,639	8,977	9,320	9,732	9,725	9,620
American Indian/Alaskan Native	741	775	825	920	946	984	962	908
Asian/Pacific Islander	8,821	10,336	11,442	11,628	11,990	12,328	12,758	13,085
Hispanic	6,224	6,683	6,563	7,457	7,617	7,963	8,247	8,691
White, non-Hispanic	128,505	130,997	132,721	129,723	127,669	122,762	119,340	118,025
Other or unknown	5,757	6,081	5,508	6,866	6,713	7,392	7,588	7,571
Students with temporary visas	58,501	56,969	55,803	53,920	54,047	53,940	55,028	58,183
Physical sciences	30,673	30,611	30,043	28,876	27,929	26,865	26,390	26,640
Total U.S. citizens and permanent residents	18,759	19,231	19,130	18,400	17,630	16,788	16,467	16,314
Black, non-Hispanic	630	690	709	729	769	741	728	700
American Indian/Alaskan Native	63	73	60	66	55	58	57	62
Asian/Pacific Islander	1,336	1,652	1,600	1,462	1,422	1,345	1,442	1,401
Hispanic	572	591	575	585	603	648	680	727
White, non-Hispanic	15,566	15,681	15,652	14,804	14,169	13,277	12,854	12,796
Other or unknown	592	544	534	754	612	719	706	628
Students with temporary visas	11,914	11,380	10,913	10,476	10,299	10,077	9,923	10,326
Earth, atmos., & ocean sci.	10,984	11,351	11,452	11,262	10,797	10,527	10,445	10,492
Total U.S. citizens and permanent residents	8,307	8,666	8,592	8,676	8,401	8,306	8,259	8,273
Black, non-Hispanic	128	142	129	135	128	137	134	137
American Indian/Alaskan Native	23	29	38	40	42	46	57	42
Asian/Pacific Islander	287	371	325	317	291	288	304	292
Hispanic	222	289	239	259	259	272	253	294
White, non-Hispanic	7,300	7,506	7,667	7,646	7,424	7,248	7,149	7,178
Other or unknown	347	329	194	279	257	315	362	330
Students with temporary visas	2,677	2,685	2,860	2,586	2,396	2,221	2,186	2,219
Mathematical sciences	14,679	14,530	14,226	13,410	12,966	12,144	11,751	11,792
Total U.S. citizens and permanent residents	8,939	9,056	8,876	8,291	7,885	7,262	7,061	6,589
Black, non-Hispanic	331	411	412	423	422	386	355	342
American Indian/Alaskan Native	20	13	26	41	31	32	22	20
Asian/Pacific Islander	625	648	802	738	755	693	771	626
Hispanic	231	258	213	234	216	242	260	275
White, non-Hispanic	7,144	7,048	6,993	6,443	6,138	5,572	5,286	4,991
Other or unknown	588	678	430	412	323	337	367	335
Students with temporary visas	5,740	5,474	5,350	5,119	5,081	4,882	4,690	5,203

See explanatory information, if any, and SOURCE at end of table.

Table 22. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1992-1999

Field, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Computer sciences	17,505	17,401	16,701	16,510	17,195	18,335	19,972	22,708
Total U.S. citizens and permanent residents	8,881	9,019	8,757	8,627	8,400	8,578	9,042	9,960
Black, non-Hispanic	411	460	465	485	475	494	476	540
American Indian/Alaskan Native	25	28	11	23	21	22	47	33
Asian/Pacific Islander	1,389	1,505	1,697	1,646	1,732	1,964	2,299	2,869
Hispanic	227	218	216	257	237	242	266	296
White, non-Hispanic	6,154	6,049	5,954	5,747	5,455	5,232	5,386	5,617
Other or unknown	675	759	414	469	480	624	568	605
Students with temporary visas	8,624	8,382	7,944	7,883	8,795	9,757	10,930	12,748
Agricultural sciences	9,454	9,484	9,510	9,633	9,327	9,133	9,015	9,210
Total U.S. citizens and permanent residents	6,592	6,675	6,696	6,879	6,754	6,763	6,775	7,048
Black, non-Hispanic	163	162	162	228	196	177	208	202
American Indian/Alaskan Native	31	31	28	46	37	47	57	50
Asian/Pacific Islander	174	227	214	216	221	237	240	245
Hispanic	232	256	218	221	281	297	290	335
White, non-Hispanic	5,813	5,838	5,924	5,943	5,839	5,743	5,770	6,004
Other or unknown	179	161	150	225	180	262	210	212
Students with temporary visas	2,862	2,809	2,814	2,754	2,573	2,370	2,240	2,162
Biological sciences	44,392	46,487	48,026	48,366	47,782	47,011	47,105	47,268
Total U.S. citizens and permanent residents	32,559	34,522	36,233	37,213	37,245	36,755	36,587	36,949
Black, non-Hispanic	1,119	1,348	1,369	1,450	1,513	1,730	1,655	1,709
American Indian/Alaskan Native	115	123	141	160	158	166	161	142
Asian/Pacific Islander	2,357	2,908	3,421	3,762	3,875	3,826	3,820	3,864
Hispanic	1,169	1,334	1,344	1,478	1,469	1,615	1,655	1,759
White, non-Hispanic	27,065	27,908	29,039	29,152	29,042	28,033	27,767	27,722
Other or unknown	734	901	919	1,211	1,188	1,385	1,529	1,753
Students with temporary visas	11,833	11,965	11,793	11,153	10,537	10,256	10,518	10,319
Psychology	34,162	34,782	35,288	35,222	35,412	35,551	35,148	34,715
Total U.S. citizens and permanent residents	32,548	33,196	33,430	33,574	33,789	33,881	33,410	32,977
Black, non-Hispanic	1,656	1,854	2,046	2,028	2,084	2,221	2,417	2,211
American Indian/Alaskan Native	210	214	234	255	270	263	222	222
Asian/Pacific Islander	946	1,090	1,160	1,168	1,320	1,438	1,464	1,530
Hispanic	1,648	1,610	1,505	1,944	2,049	2,096	2,305	2,458
White, non-Hispanic	26,849	27,239	27,138	26,664	26,561	26,281	25,444	24,876
Other or unknown	1,239	1,189	1,347	1,515	1,505	1,582	1,558	1,680
Students with temporary visas	1,614	1,586	1,858	1,648	1,623	1,670	1,738	1,738
Social sciences	54,245	55,606	56,255	56,212	56,894	55,535	53,822	53,258
Total U.S. citizens and permanent residents	41,008	42,918	43,984	43,911	44,151	42,828	41,019	39,790
Black, non-Hispanic	3,107	3,344	3,347	3,499	3,733	3,846	3,752	3,779
American Indian/Alaskan Native	254	264	287	289	332	350	339	337
Asian/Pacific Islander	1,707	1,935	2,223	2,319	2,374	2,537	2,418	2,258
Hispanic	1,923	2,127	2,253	2,479	2,503	2,551	2,538	2,547
White, non-Hispanic	32,614	33,728	34,354	33,324	33,041	31,376	29,684	28,841
Other or unknown	1,403	1,520	1,520	2,001	2,168	2,168	2,288	2,028
Students with temporary visas	13,237	12,688	12,271	12,301	12,743	12,707	12,803	13,468
Engineering, total	74,407	73,770	71,539	67,754	65,829	65,576	65,331	67,832
Total U.S. citizens and permanent residents	39,869	41,189	41,141	38,582	36,462	34,814	33,327	32,246
Black, non-Hispanic	1,359	1,490	1,703	1,690	1,663	1,673	1,579	1,607
American Indian/Alaskan Native	106	121	134	135	140	140	136	121
Asian/Pacific Islander	4,495	4,861	5,729	5,146	4,815	4,720	4,796	4,980
Hispanic	1,371	1,517	1,619	1,622	1,657	1,589	1,644	1,647
White, non-Hispanic	29,919	30,314	30,053	27,779	26,162	24,696	23,401	22,352
Other or unknown	2,619	2,886	1,903	2,210	2,025	1,996	1,771	1,539
Students with temporary visas	34,538	32,581	30,398	29,172	29,367	30,762	32,004	35,586
Chemical engineering	5,946	6,041	6,105	5,957	5,909	5,784	5,601	5,569
Total U.S. citizens and permanent residents	2,948	3,107	3,370	3,304	3,368	3,263	3,044	2,818
Black, non-Hispanic	108	115	133	134	143	128	126	101
American Indian/Alaskan Native	11	12	15	18	21	13	16	13
Asian/Pacific Islander	274	348	395	351	378	405	356	384
Hispanic	131	131	134	164	159	115	146	158
White, non-Hispanic	2,315	2,395	2,578	2,531	2,527	2,484	2,291	2,060
Other or unknown	109	106	115	106	140	118	109	102
Students with temporary visas	2,998	2,934	2,735	2,653	2,541	2,521	2,557	2,751

See explanatory information, if any, and SOURCE at end of table.

Table 22. Full-time graduate students in science, engineering, and health fields in all institutions, by field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1992-1999

Field, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Civil engineering	12,454	12,458	12,641	12,248	11,791	11,331	11,079	11,178
Total U.S. citizens and permanent residents	7,003	7,440	7,848	7,652	7,509	7,037	6,827	6,461
Black, non-Hispanic	188	229	230	261	242	248	231	248
American Indian/Alaskan Native	20	26	23	27	36	41	26	30
Asian/Pacific Islander	558	601	776	760	719	627	713	616
Hispanic	277	337	354	378	452	442	464	470
White, non-Hispanic	5,663	5,926	6,212	5,892	5,706	5,405	5,097	4,800
Other or unknown	297	321	253	334	354	274	296	297
Students with temporary visas	5,451	5,018	4,793	4,596	4,282	4,294	4,252	4,717
Electrical engineering	20,977	20,343	19,385	18,167	17,967	18,854	19,470	20,224
Total U.S. citizens and permanent residents	10,548	10,394	10,441	9,365	8,688	8,475	8,089	7,487
Black, non-Hispanic	437	479	538	484	445	481	466	452
American Indian/Alaskan Native	26	25	23	28	26	25	13	18
Asian/Pacific Islander	1,764	1,690	2,152	1,895	1,831	1,766	1,821	1,906
Hispanic	376	418	414	384	373	388	387	336
White, non-Hispanic	7,091	6,972	6,671	5,872	5,402	5,101	4,864	4,386
Other or unknown	854	810	643	702	611	714	538	389
Students with temporary visas	10,429	9,949	8,944	8,802	9,279	10,379	11,381	12,737
Industrial engineering	6,081	5,902	5,910	5,342	5,128	5,075	4,853	5,284
Total U.S. citizens and permanent residents	3,076	3,209	3,180	2,863	2,512	2,421	2,234	2,343
Black, non-Hispanic	191	181	197	200	189	185	163	158
American Indian/Alaskan Native	14	14	9	4	8	8	5	14
Asian/Pacific Islander	336	392	359	337	285	323	305	363
Hispanic	122	144	160	146	153	143	125	145
White, non-Hispanic	2,160	2,161	2,293	1,921	1,733	1,636	1,510	1,556
Other or unknown	253	317	162	255	144	126	126	107
Students with temporary visas	3,005	2,693	2,730	2,479	2,616	2,654	2,619	2,941
Mechanical engineering	12,383	12,395	11,875	11,128	10,690	10,432	10,073	10,333
Total U.S. citizens and permanent residents	6,803	7,228	7,090	6,548	6,024	5,591	5,212	5,009
Black, non-Hispanic	199	225	283	285	298	315	285	250
American Indian/Alaskan Native	14	19	25	30	23	22	19	18
Asian/Pacific Islander	709	826	969	804	705	631	626	663
Hispanic	207	215	250	257	237	234	238	233
White, non-Hispanic	5,169	5,289	5,175	4,774	4,438	4,073	3,716	3,613
Other or unknown	505	654	388	398	323	316	328	232
Students with temporary visas	5,580	5,167	4,785	4,580	4,666	4,841	4,861	5,324
Other engineering	16,566	16,631	15,623	14,912	14,344	14,100	14,255	15,244
Total U.S. citizens and permanent residents	9,491	9,811	9,212	8,850	8,361	8,027	7,921	8,128
Black, non-Hispanic	236	261	322	326	346	316	308	398
American Indian/Alaskan Native	21	25	39	28	26	31	57	28
Asian/Pacific Islander	854	1,004	1,078	999	897	968	975	1,048
Hispanic	258	272	307	293	283	267	284	305
White, non-Hispanic	7,521	7,571	7,124	6,789	6,356	5,997	5,923	5,937
Other or unknown	601	678	342	415	453	448	374	412
Students with temporary visas	7,075	6,820	6,411	6,062	5,983	6,073	6,334	7,116
Total, health fields	32,108	35,679	39,109	42,111	44,497	46,633	48,468	50,490
Total U.S. citizens and permanent residents	28,428	31,872	35,485	38,491	40,534	42,656	44,507	46,207
Black, non-Hispanic	1,316	1,484	1,623	1,839	2,009	2,164	2,479	2,744
American Indian/Alaskan Native	167	166	178	199	220	237	241	267
Asian/Pacific Islander	1,398	1,748	2,007	2,306	2,691	3,003	3,383	3,568
Hispanic	1,482	1,597	1,695	1,963	2,032	1,995	2,064	2,539
White, non-Hispanic	23,278	25,843	28,631	30,501	31,991	33,306	34,561	35,276
Other or unknown	787	1,034	1,351	1,683	1,591	1,951	1,779	1,813
Students with temporary visas	3,680	3,807	3,624	3,620	3,963	3,977	3,961	4,283

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 23. Full-time graduate science, engineering, and health students without U.S. citizenship and permanent resident status in all institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	96,719	93,357	89,825	86,712	87,377	88,679	90,993	98,052
Total, science and engineering fields	93,039	89,550	86,201	83,092	83,414	84,702	87,032	93,769
Sciences, total	58,501	56,969	55,803	53,920	54,047	53,940	55,028	58,183
Physical sciences, total	11,914	11,380	10,913	10,476	10,299	10,077	9,923	10,326
Astronomy	219	210	259	225	212	184	206	234
Chemistry	6,264	6,075	5,915	5,774	5,719	5,591	5,546	5,616
Physics	5,395	5,041	4,672	4,419	4,323	4,257	4,120	4,407
Physical sciences, n.e.c.	36	54	67	58	45	45	51	69
Earth, atmos., & ocean sci., total	2,677	2,685	2,860	2,586	2,396	2,221	2,186	2,219
Atmospheric sciences	307	272	250	248	268	281	234	257
Geosciences	1,520	1,520	1,559	1,390	1,300	1,178	1,119	1,110
Oceanography	563	557	671	583	510	471	483	466
Earth, atmos., & ocean sci., n.e.c.	287	336	380	365	318	291	350	386
Mathematical sciences	5,740	5,474	5,350	5,119	5,081	4,882	4,690	5,203
Computer sciences	8,624	8,382	7,944	7,883	8,795	9,757	10,930	12,748
Agricultural sciences	2,862	2,809	2,814	2,754	2,573	2,370	2,240	2,162
Biological sciences, total	11,833	11,965	11,793	11,153	10,537	10,256	10,518	10,319
Anatomy	232	236	218	232	210	207	188	189
Biochemistry	1,721	1,742	1,689	1,598	1,462	1,376	1,408	1,391
Biology	1,891	1,829	1,732	1,687	1,679	1,779	1,815	1,743
Biometry/epidemiology	487	542	533	500	468	436	606	648
Biophysics	249	214	208	198	175	170	162	151
Botany	807	817	739	639	627	610	621	595
Cell biology	697	730	852	797	782	768	790	782
Ecology	133	165	161	154	143	133	134	156
Entomology/parasitology	304	321	323	332	285	259	266	278
Genetics	344	367	348	340	373	399	380	366
Microbio., immunology, & virology	1,141	1,229	1,246	1,129	1,027	952	929	924
Nutrition	1,076	1,197	1,099	1,116	1,022	956	923	890
Pathology	322	339	335	322	319	281	278	283
Pharmacology	682	616	631	532	560	541	562	552
Physiology	632	597	574	509	420	401	417	434
Zoology	295	261	272	228	211	184	166	139
Biosciences, n.e.c.	820	763	833	840	774	804	873	798
Psychology	1,614	1,586	1,858	1,648	1,623	1,670	1,738	1,738
Social sciences, total	13,237	12,688	12,271	12,301	12,743	12,707	12,803	13,468
Agricultural economics	995	892	832	899	804	821	786	808
Anthropology (cultural & social)	717	675	681	584	592	596	637	701
Economics (except agricultural)	4,845	4,694	4,579	4,691	4,904	4,773	4,651	4,916
Geography	426	432	398	396	398	442	492	497
Linguistics	952	908	898	874	883	862	882	858
Political science	2,803	2,764	2,639	2,675	2,956	2,863	2,943	3,251
Sociology	1,299	1,152	1,065	943	936	990	942	1,013
Sociology/anthropology	98	72	77	77	67	73	87	63
Social sciences, other	1,102	1,099	1,102	1,162	1,203	1,287	1,383	1,361
Engineering, total	34,538	32,581	30,398	29,172	29,367	30,762	32,004	35,586
Aerospace engineering	1,060	1,084	1,138	1,082	1,159	1,202	1,297	1,367
Agricultural engineering	463	432	441	445	406	351	358	369
Biomedical engineering	723	699	730	662	633	652	659	799
Chemical engineering	2,998	2,934	2,735	2,653	2,541	2,521	2,557	2,751
Civil engineering	5,451	5,018	4,793	4,596	4,282	4,294	4,252	4,717
Electrical engineering	10,429	9,949	8,944	8,802	9,279	10,379	11,381	12,737
Engineering science	613	573	514	418	426	398	485	469
Industrial/manufacturing eng.	3,005	2,693	2,730	2,479	2,616	2,654	2,619	2,941
Mechanical engineering	5,580	5,167	4,785	4,580	4,666	4,841	4,861	5,324
Metallurgical/materials eng.	2,027	1,985	1,773	1,722	1,732	1,767	1,835	1,847
Nuclear engineering	473	436	379	347	284	274	273	298
Engineering, other	1,716	1,611	1,436	1,386	1,343	1,429	1,427	1,967
Total, health fields	3,680	3,807	3,624	3,620	3,963	3,977	3,961	4,283
Clinical fields	382	392	369	256	245	229	220	255
Dental sciences	228	236	210	240	281	307	281	235
Nursing	215	245	282	296	263	305	306	352
Pharmaceutical sciences	964	945	863	950	1,048	1,062	1,048	1,054
Preventive medicine/community health	841	869	728	723	793	763	796	908
Speech pathology/audiology	327	339	335	271	291	297	315	321
Veterinary sciences	232	223	211	241	266	273	234	261
Other health fields	491	558	626	643	776	741	761	897

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 24. Full-time graduate students in science and engineering fields in all institutions, by field and Carnegie classification: 1992-1999

Carnegie classification and field	1992	1993	1994	1995	1996	1997	1998	1999
All institutions:								
Total, science and eng. fields	290,501	294,022	293,040	287,245	284,131	280,677	278,979	283,915
Sciences, total	216,094	220,252	221,501	219,491	218,302	215,101	213,648	216,083
Physical sciences	30,673	30,611	30,043	28,876	27,929	26,865	26,390	26,640
Earth, atmos., & ocean sci.	10,984	11,351	11,452	11,262	10,527	10,527	10,445	10,492
Mathematical sciences	14,679	14,530	14,226	13,410	12,966	12,144	11,751	11,792
Computer sciences	17,505	17,401	16,701	16,510	17,195	18,335	19,972	22,708
Agricultural sciences	9,454	9,484	9,510	9,633	9,327	9,133	9,015	9,210
Biological sciences	44,392	46,487	48,026	48,366	47,782	47,011	47,105	47,268
Psychology	34,162	34,782	35,288	35,222	35,412	35,551	35,148	34,715
Social sciences	54,245	55,606	56,255	56,212	56,894	55,535	53,822	53,258
Engineering, total	74,407	73,770	71,539	67,754	65,829	65,576	65,331	67,832
Research I:								
Total, science and eng. fields	176,694	179,106	177,761	172,916	169,522	165,311	164,917	167,882
Sciences, total	126,404	128,644	128,694	126,353	124,251	120,455	119,663	121,123
Physical sciences	21,030	20,962	20,470	19,742	19,039	18,255	17,921	18,392
Earth, atmos., & ocean sci.	6,637	6,808	6,809	6,655	6,317	6,050	6,014	5,964
Mathematical sciences	9,154	8,966	8,717	8,338	8,063	7,602	7,372	7,414
Computer sciences	8,337	8,379	8,254	8,134	8,144	8,249	8,964	9,866
Agricultural sciences	6,570	6,594	6,669	6,648	6,448	6,219	5,998	5,925
Biological sciences	29,439	30,549	31,506	31,397	30,895	30,082	30,546	31,057
Psychology	10,296	10,332	10,252	10,101	9,996	9,758	9,564	9,377
Social sciences	34,941	36,054	36,017	35,338	35,349	34,240	33,284	33,128
Engineering, total	50,290	50,462	49,067	46,563	45,271	44,856	45,254	46,759
Research II:								
Total, science and eng. fields	33,955	34,071	33,706	33,772	33,077	32,439	31,753	31,742
Sciences, total	24,718	25,061	25,137	25,416	25,109	24,290	23,940	23,622
Physical sciences	3,874	3,833	3,824	3,690	3,492	3,428	3,296	3,220
Earth, atmos., & ocean sci.	1,478	1,497	1,551	1,568	1,444	1,420	1,416	1,469
Mathematical sciences	1,936	1,931	1,848	1,788	1,670	1,509	1,459	1,391
Computer sciences	1,845	1,903	1,839	1,839	1,941	1,786	1,921	2,206
Agricultural sciences	1,661	1,640	1,583	1,665	1,573	1,596	1,624	1,764
Biological sciences	4,297	4,457	4,610	4,731	4,636	4,663	4,541	4,478
Psychology	3,235	3,173	3,281	3,405	3,319	3,177	3,245	3,019
Social sciences	6,392	6,627	6,601	6,730	7,034	6,711	6,438	6,075
Engineering, total	9,237	9,010	8,569	8,356	7,968	8,149	7,813	8,120
Doctorate-granting:								
Total, science and eng. fields	42,795	43,107	44,015	42,306	43,072	43,718	42,507	43,972
Sciences, total	33,860	34,468	35,509	34,522	35,140	35,774	34,974	35,687
Physical sciences	4,447	4,361	4,276	4,033	4,016	3,863	3,793	3,824
Earth, atmos., & ocean sci.	1,633	1,740	1,794	1,749	1,724	1,632	1,720	1,759
Mathematical sciences	2,336	2,375	2,401	2,172	2,092	1,978	1,857	1,914
Computer sciences	3,825	3,760	3,712	3,746	3,983	4,680	4,934	5,687
Agricultural sciences	595	547	600	561	596	535	595	629
Biological sciences	4,574	4,742	4,995	5,029	4,981	4,974	4,820	4,514
Psychology	8,123	8,619	8,946	8,570	8,754	9,233	8,935	8,940
Social sciences	8,327	8,324	8,785	8,662	8,994	8,879	8,320	8,420
Engineering, total	8,935	8,639	8,506	7,784	7,932	7,944	7,533	8,285

See explanatory information, if any, and SOURCE at end of table.

Table 24: Full-time graduate students in science and engineering fields in all institutions, by field and Carnegie classification: 1992-1999

Carnegie classification and field	1992	1993	1994	1995	1996	1997	1998	1999
Comprehensive:								
Total, science and eng. fields	24,895	25,393	25,338	25,345	25,552	26,202	26,683	27,141
Sciences, total	20,824	21,467	21,556	21,752	22,205	22,893	23,239	23,581
Physical sciences	1,042	1,149	1,154	1,152	1,120	1,048	1,136	962
Earth, atmos., & ocean sci.	750	809	831	812	802	909	797	788
Mathematical sciences	1,000	1,007	1,037	919	901	839	852	892
Computer sciences	3,027	2,874	2,443	2,309	2,679	3,188	3,703	4,484
Agricultural sciences	558	647	606	719	672	753	777	871
Biological sciences	2,434	2,838	2,775	2,884	2,975	3,058	2,914	2,880
Psychology	7,633	7,744	8,171	8,224	8,273	8,101	8,126	7,942
Social sciences	4,380	4,399	4,539	4,733	4,783	4,997	4,934	4,762
Engineering, total	4,071	3,926	3,782	3,593	3,347	3,309	3,444	3,560
Engineering:								
Total, science and eng. fields	904	936	895	844	818	865	908	769
Sciences, total	387	405	367	350	370	352	362	334
Physical sciences	97	102	87	56	64	59	45	45
Earth, atmos., & ocean sci.	161	177	164	153	160	166	175	153
Mathematical sciences	13	18	11	8	9	4	8	7
Computer sciences	107	102	97	94	95	86	98	98
Agricultural sciences	0	0	0	0	0	0	0	0
Biological sciences	9	6	8	39	42	37	36	31
Psychology	0	0	0	0	0	0	0	0
Social sciences	0	0	0	0	0	0	0	0
Engineering, total	517	531	528	494	448	513	546	435
Liberal arts:								
Total, science and eng. fields	1,658	1,513	1,585	1,449	1,419	1,287	1,064	1,154
Sciences, total	1,539	1,441	1,507	1,362	1,340	1,219	1,016	1,101
Physical sciences	94	94	100	85	85	94	79	88
Earth, atmos., & ocean sci.	139	133	118	107	108	123	112	142
Mathematical sciences	32	32	34	25	26	16	17	27
Computer sciences	9	5	6	2	5	2	0	1
Agricultural sciences	70	56	52	40	38	30	21	21
Biological sciences	114	118	123	115	112	114	110	98
Psychology	1,023	953	989	928	907	801	644	685
Social sciences	58	50	85	60	59	39	33	39
Engineering, total	119	72	78	87	79	68	48	53
Other:								
Total, science and eng. fields	9,600	9,896	9,740	10,613	10,671	10,855	11,147	11,255
Sciences, total	8,362	8,766	8,731	9,736	9,887	10,118	10,454	10,635
Physical sciences	89	110	132	118	113	118	120	109
Earth, atmos., & ocean sci.	186	187	185	218	242	227	211	217
Mathematical sciences	208	201	178	160	205	196	186	147
Computer sciences	355	378	350	386	348	344	352	366
Agricultural sciences	0	0	0	0	0	0	0	0
Biological sciences	3,525	3,777	4,009	4,171	4,141	4,083	4,138	4,210
Psychology	3,852	3,961	3,649	3,994	4,163	4,481	4,634	4,752
Social sciences	147	152	228	689	675	669	813	834
Engineering, total	1,238	1,130	1,009	877	784	737	693	620

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 25. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields:								
Total, all sources	322,609	329,701	332,149	329,356	328,628	327,310	327,447	334,405
Federal, total	65,626	67,688	68,566	67,310	65,251	64,529	63,759	65,764
Dept. of Defense	9,247	9,750	9,449	9,339	8,802	9,021	8,259	8,037
Dept. of HHS, total	21,428	22,038	22,680	22,787	22,371	22,537	22,627	23,326
NIH	17,093	18,137	18,295	18,111	17,932	18,087	18,138	19,010
Other HHS	4,335	3,901	4,385	4,676	4,439	4,450	4,489	4,316
NASA ¹	N/A	N/A	N/A	N/A	2,309	2,586	2,646	2,597
NSF	13,366	13,530	13,990	13,661	13,412	13,362	13,459	13,849
USDA	3,216	3,324	3,422	3,254	3,004	2,646	2,485	2,643
All other Federal	18,369	19,046	19,025	18,269	15,353	14,377	14,283	15,312
Institutional support	127,903	129,000	129,274	129,380	128,424	128,951	129,035	133,171
Other outside support, total	27,769	26,714	27,255	25,951	25,403	25,029	26,347	26,130
All other U.S.	21,309	21,233	21,537	20,404	20,154	20,216	22,128	22,238
Foreign	6,460	5,481	5,718	5,547	5,249	4,813	4,219	3,892
Self-support	101,311	106,299	107,054	106,715	109,550	108,801	108,306	109,340
Total, science and engineering:								
Total, all sources	290,501	294,022	293,040	287,245	284,131	280,677	278,979	283,915
Federal, total	58,298	60,393	60,790	59,410	57,859	56,806	55,828	57,438
Dept. of Defense	8,848	9,315	9,068	9,006	8,471	8,701	7,959	7,674
Dept. of HHS, total	16,274	16,827	17,148	17,112	16,917	16,820	16,742	17,256
NIH	15,043	15,871	15,950	15,674	15,488	15,356	15,310	15,998
Other HHS	1,231	956	1,198	1,438	1,429	1,464	1,432	1,258
NASA ¹	N/A	N/A	N/A	N/A	2,295	2,565	2,620	2,582
NSF	13,296	13,441	13,873	13,561	13,330	13,264	13,341	13,728
USDA	3,147	3,246	3,348	3,199	2,954	2,604	2,437	2,589
All other Federal	16,733	17,564	17,353	16,532	13,892	12,852	12,729	13,609
Institutional support	120,266	120,890	120,821	120,408	119,057	119,296	119,008	122,322
Other outside support, total	26,076	24,973	25,394	23,930	23,382	23,068	24,158	23,776
All other U.S.	20,076	19,935	20,134	18,913	18,563	18,741	20,371	20,297
Foreign	6,000	5,038	5,260	5,017	4,819	4,327	3,787	3,479
Self-support	85,861	87,766	86,035	83,497	83,833	81,507	79,985	80,379
Sciences, total:								
Total, all sources	216,094	220,252	221,501	219,491	218,302	215,101	213,648	216,083
Federal, total	41,736	43,505	43,936	43,050	42,027	40,939	40,325	41,525
Dept. of Defense	3,895	4,176	4,351	4,196	3,933	3,928	3,643	3,322
Dept. of HHS, total	15,373	15,903	16,242	16,194	16,082	15,905	15,841	16,295
NIH	14,245	15,077	15,168	14,906	14,757	14,590	14,556	15,154
Other HHS	1,128	826	1,074	1,288	1,325	1,315	1,285	1,141
NASA ¹	N/A	N/A	N/A	N/A	1,202	1,304	1,375	1,436
NSF	8,693	8,882	9,110	8,982	8,739	8,653	8,622	8,769
USDA	2,789	2,940	3,003	2,858	2,663	2,390	2,254	2,360
All other Federal	10,986	11,604	11,230	10,820	9,408	8,759	8,590	9,343
Institutional support	95,333	95,932	96,257	96,576	95,663	95,523	95,630	97,111
Other outside support, total	15,529	15,257	16,016	14,823	14,508	14,133	14,435	14,279
All other U.S.	11,560	11,863	12,368	11,461	11,226	11,211	11,821	11,884
Foreign	3,969	3,394	3,648	3,362	3,282	2,922	2,614	2,395
Self-support	63,496	65,558	65,292	65,042	66,104	64,506	63,258	63,168
Physical sciences:								
Total, all sources	30,673	30,611	30,043	28,876	27,929	26,865	26,390	26,640
Federal, total	11,007	11,140	11,032	10,339	9,875	9,450	9,123	9,241
Dept. of Defense	1,194	1,187	1,316	1,198	1,073	1,037	994	883
Dept. of HHS, total	2,188	2,162	2,209	2,066	2,066	1,955	1,891	1,846
NIH	2,056	2,051	2,074	1,886	1,783	1,639	1,631	1,657
Other HHS	132	111	135	180	283	316	260	189
NASA ¹	N/A	N/A	N/A	N/A	538	586	595	568
NSF	3,601	3,623	3,703	3,601	3,385	3,372	3,318	3,278
USDA	68	61	42	38	43	31	40	33
All other Federal	3,956	4,107	3,762	3,436	2,770	2,469	2,285	2,633
Institutional support	15,358	15,148	14,831	14,846	14,338	14,131	14,101	14,123
Other outside support, total	2,349	2,234	2,316	2,080	2,095	1,863	1,852	1,926
All other U.S.	2,044	1,955	2,008	1,793	1,801	1,645	1,663	1,754
Foreign	305	279	308	287	294	218	189	172
Self-support	1,959	2,089	1,864	1,611	1,621	1,421	1,314	1,350

See explanatory information, if any, and SOURCE at end of table.

Table 25. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Earth, atmos., & ocean sci.:								
Total, all sources	10,984	11,351	11,452	11,262	10,797	10,527	10,445	10,492
Federal, total	3,436	3,652	3,630	3,472	3,273	3,119	2,959	2,987
Dept. of Defense	472	517	494	410	393	366	336	339
Dept. of HHS, total	49	48	37	33	49	40	38	42
NIH	43	41	36	30	30	27	21	22
Other HHS	6	7	1	3	19	13	17	20
NASA ¹	N/A	N/A	N/A	N/A	331	355	390	411
NSF	1,320	1,366	1,409	1,387	1,242	1,201	1,122	1,128
USDA	86	64	61	65	75	52	77	55
All other Federal	1,509	1,657	1,629	1,577	1,183	1,105	996	1,012
Institutional support	4,314	4,364	4,337	4,439	4,270	4,388	4,441	4,732
Other outside support, total	1,006	928	1,023	966	918	884	860	844
All other U.S.	761	735	790	731	701	700	696	682
Foreign	245	193	233	235	217	184	164	162
Self-support	2,228	2,407	2,462	2,385	2,336	2,136	2,185	1,929
Mathematical sciences:								
Total, all sources	14,679	14,530	14,226	13,410	12,966	12,144	11,751	11,792
Federal, total	1,497	1,474	1,397	1,287	1,237	1,152	1,044	1,104
Dept. of Defense	386	399	372	322	351	363	283	227
Dept. of HHS, total	118	80	76	87	82	96	100	105
NIH	111	74	68	63	61	66	68	78
Other HHS	7	6	8	24	21	30	32	27
NASA ¹	N/A	N/A	N/A	N/A	21	19	11	15
NSF	457	470	518	474	435	386	384	441
USDA	25	28	16	13	9	16	7	7
All other Federal	511	497	415	391	339	272	259	309
Institutional support	9,578	9,394	9,461	9,151	8,836	8,469	8,289	8,278
Other outside support, total	626	524	552	496	554	491	453	423
All other U.S.	356	303	333	309	347	314	314	297
Foreign	270	221	219	187	207	177	139	126
Self-support	2,978	3,138	2,816	2,476	2,339	2,032	1,965	1,987
Computer sciences:								
Total, all sources	17,505	17,401	16,701	16,510	17,195	18,335	19,972	22,708
Federal, total	2,663	2,920	3,067	3,176	3,106	3,173	3,309	3,361
Dept. of Defense	1,210	1,327	1,345	1,419	1,349	1,434	1,307	1,213
Dept. of HHS, total	104	107	103	111	113	106	110	107
NIH	101	99	95	93	80	78	75	64
Other HHS	3	8	8	18	33	28	35	43
NASA ¹	N/A	N/A	N/A	N/A	121	122	124	111
NSF	964	1,006	1,047	1,054	1,051	1,087	1,171	1,309
USDA	6	7	9	13	13	12	10	20
All other Federal	379	473	563	579	459	412	587	601
Institutional support	5,602	5,510	5,438	5,488	5,639	5,912	6,206	7,057
Other outside support, total	1,353	1,384	1,393	1,300	1,166	1,184	1,311	1,560
All other U.S.	1,032	1,132	1,107	1,063	919	1,025	1,137	1,424
Foreign	321	252	286	237	247	159	174	136
Self-support	7,887	7,587	6,803	6,546	7,264	8,066	9,146	10,730
Agricultural sciences:								
Total, all sources	9,454	9,484	9,510	9,633	9,327	9,133	9,015	9,210
Federal, total	1,993	1,965	1,922	2,061	1,973	1,783	1,683	1,911
Dept. of Defense	18	37	35	32	38	39	47	28
Dept. of HHS, total	41	34	50	25	31	30	30	28
NIH	38	32	47	19	17	21	15	17
Other HHS	3	2	3	6	14	9	15	11
NASA ¹	N/A	N/A	N/A	N/A	28	28	36	55
NSF	76	76	87	92	97	102	91	107
USDA	1,110	1,150	1,114	1,195	1,069	956	958	1,063
All other Federal	748	668	636	717	710	628	521	630
Institutional support	3,623	3,637	3,816	3,886	3,684	3,672	3,772	3,797
Other outside support, total	1,685	1,681	1,671	1,486	1,443	1,566	1,585	1,569
All other U.S.	1,099	1,189	1,153	1,083	1,088	1,227	1,289	1,310
Foreign	586	492	518	403	355	339	296	259
Self-support	2,153	2,201	2,101	2,200	2,227	2,112	1,975	1,933

See explanatory information, if any, and SOURCE at end of table.

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Table 25. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Biological sciences:								
Total, all sources	44,392	46,487	48,026	48,366	47,782	47,011	47,105	47,268
Federal, total	15,148	16,210	16,725	16,649	16,564	16,365	16,251	16,531
Dept. of Defense	232	273	347	359	365	373	356	337
Dept. of HHS, total	11,054	11,632	11,979	12,072	11,891	11,883	11,922	12,268
NIH	10,637	11,314	11,464	11,400	11,302	11,299	11,304	11,774
Other HHS	417	318	515	672	589	584	618	494
NASA ¹	N/A	N/A	N/A	N/A	90	109	102	101
NSF	1,347	1,382	1,382	1,411	1,494	1,541	1,544	1,504
USDA	1,083	1,222	1,289	1,090	1,071	927	807	843
All other Federal	1,432	1,701	1,728	1,717	1,653	1,532	1,520	1,478
Institutional support	19,755	20,032	20,716	20,838	20,432	20,313	20,273	20,500
Other outside support, total	3,788	3,866	4,142	3,898	3,746	3,605	3,787	3,368
All other U.S.	3,110	3,282	3,508	3,291	3,189	3,086	3,258	2,898
Foreign	678	584	634	607	557	519	529	470
Self-support	5,701	6,379	6,443	6,981	7,040	6,728	6,794	6,869
Psychology:								
Total, all sources	34,162	34,782	35,288	35,222	35,412	35,551	35,148	34,715
Federal, total	2,582	2,653	2,634	2,543	2,752	2,720	2,927	3,255
Dept. of Defense	136	163	175	175	139	113	128	124
Dept. of HHS, total	1,398	1,423	1,365	1,326	1,523	1,465	1,445	1,554
NIH	962	1,163	1,098	1,094	1,218	1,198	1,226	1,275
Other HHS	436	260	267	232	305	267	219	279
NASA ¹	N/A	N/A	N/A	N/A	21	20	24	41
NSF	283	314	289	288	289	277	283	310
USDA	19	15	38	16	5	7	8	13
All other Federal	746	738	767	738	775	838	1,039	1,213
Institutional support	12,676	13,215	12,966	12,841	13,033	13,480	13,261	13,252
Other outside support, total	1,108	1,079	1,190	1,133	1,044	1,219	1,349	1,400
All other U.S.	1,051	1,032	1,116	1,089	1,003	1,162	1,296	1,344
Foreign	57	47	74	44	41	57	53	56
Self-support	17,796	17,835	18,498	18,705	18,583	18,132	17,611	16,808
Social sciences:								
Total, all sources	54,245	55,606	56,255	56,212	56,894	55,535	53,822	53,258
Federal, total	3,410	3,491	3,529	3,523	3,247	3,177	3,029	3,135
Dept. of Defense	247	273	267	281	225	203	192	171
Dept. of HHS, total	421	417	423	474	327	330	305	345
NIH	297	303	286	321	266	262	216	267
Other HHS	124	114	137	153	61	68	89	78
NASA ¹	N/A	N/A	N/A	N/A	52	65	93	134
NSF	645	645	675	675	746	687	709	692
USDA	392	393	434	428	378	389	347	326
All other Federal	1,705	1,763	1,730	1,665	1,519	1,503	1,383	1,467
Institutional support	24,427	24,632	24,692	25,087	25,431	25,158	25,287	25,372
Other outside support, total	3,614	3,561	3,729	3,464	3,542	3,321	3,238	3,189
All other U.S.	2,107	2,235	2,353	2,102	2,178	2,052	2,168	2,175
Foreign	1,507	1,326	1,376	1,362	1,364	1,269	1,070	1,014
Self-support	22,794	23,922	24,305	24,138	24,674	23,879	22,268	21,562
Engineering, total:								
Total, all sources	74,407	73,770	71,539	67,754	65,829	65,576	65,331	67,832
Federal, total	16,562	16,888	16,854	16,360	15,832	15,867	15,503	15,913
Dept. of Defense	4,953	5,139	4,717	4,810	4,538	4,773	4,316	4,352
Dept. of HHS, total	901	924	906	918	835	915	901	961
NIH	798	794	782	768	731	766	754	844
Other HHS	103	130	124	150	104	149	147	117
NASA ¹	N/A	N/A	N/A	N/A	1,093	1,261	1,245	1,146
NSF	4,603	4,559	4,763	4,579	4,591	4,611	4,719	4,959
USDA	358	306	345	341	291	214	183	229
All other Federal	5,747	5,960	6,123	5,712	4,484	4,093	4,139	4,266
Institutional support	24,933	24,958	24,564	23,832	23,394	23,773	23,378	25,211
Other outside support, total	10,547	9,716	9,378	9,107	8,874	8,935	9,723	9,497
All other U.S.	8,516	8,072	7,766	7,452	7,337	7,530	8,550	8,413
Foreign	2,031	1,644	1,612	1,655	1,537	1,405	1,173	1,084
Self-support	22,365	22,208	20,743	18,455	17,729	17,001	16,727	17,211

See explanatory information, if any, and SOURCE at end of table.

Table 25. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Chemical engineering:								
Total, all sources	5,946	6,041	6,105	5,957	5,909	5,784	5,601	5,569
Federal, total	1,654	1,748	1,716	1,752	1,786	1,649	1,683	1,657
Dept. of Defense	123	139	128	164	169	169	160	163
Dept. of HHS, total	166	141	173	163	162	137	141	149
NIH	146	119	143	136	148	121	111	127
Other HHS	20	22	30	27	14	16	30	22
NASA ¹	N/A	N/A	N/A	N/A	91	80	98	102
NSF	699	730	749	759	777	708	756	744
USDA	38	52	54	66	34	25	25	25
All other Federal	628	686	612	600	553	530	503	474
Institutional support	2,308	2,340	2,420	2,278	2,154	2,229	2,121	2,294
Other outside support, total	1,170	1,059	1,145	1,080	1,113	1,127	943	966
All other U.S.	1,072	960	1,041	942	957	947	830	891
Foreign	98	99	104	138	156	180	113	75
Self-support	814	894	824	847	856	779	854	652
Civil engineering:								
Total, all sources	12,454	12,458	12,641	12,248	11,791	11,331	11,079	11,178
Federal, total	2,028	1,982	2,090	1,970	1,886	1,807	1,670	1,672
Dept. of Defense	349	328	321	290	215	232	192	157
Dept. of HHS, total	43	38	45	41	39	47	46	44
NIH	38	30	37	31	33	41	35	39
Other HHS	5	8	8	10	6	6	11	5
NASA ¹	N/A	N/A	N/A	N/A	117	121	61	56
NSF	532	522	587	530	534	529	544	544
USDA	80	63	65	53	70	40	28	35
All other Federal	1,024	1,031	1,072	1,056	911	838	799	836
Institutional support	4,391	4,579	4,742	4,874	4,754	4,704	4,570	4,852
Other outside support, total	1,477	1,267	1,233	1,163	1,154	1,079	1,101	1,089
All other U.S.	1,031	972	942	875	911	859	922	936
Foreign	446	295	291	288	243	220	179	153
Self-support	4,558	4,630	4,576	4,241	3,997	3,741	3,738	3,565
Electrical engineering:								
Total, all sources	20,977	20,343	19,385	18,167	17,967	18,854	19,470	20,224
Federal, total	4,059	4,104	4,085	4,056	3,984	4,389	4,316	4,610
Dept. of Defense	1,700	1,764	1,664	1,706	1,651	1,938	1,803	1,842
Dept. of HHS, total	90	103	100	113	93	117	102	102
NIH	81	86	83	84	71	70	79	85
Other HHS	9	17	17	29	22	47	23	17
NASA ¹	N/A	N/A	N/A	N/A	173	229	244	279
NSF	1,386	1,283	1,342	1,324	1,317	1,344	1,304	1,477
USDA	24	11	24	34	13	15	12	10
All other Federal	859	943	955	879	737	746	851	900
Institutional support	6,863	6,725	6,406	6,245	6,393	6,746	6,560	7,114
Other outside support, total	2,950	2,772	2,620	2,591	2,648	2,710	3,124	2,829
All other U.S.	2,447	2,335	2,218	2,162	2,263	2,375	2,846	2,551
Foreign	503	437	402	429	385	335	278	278
Self-support	7,105	6,742	6,274	5,275	4,942	5,009	5,470	5,671
Industrial engineering:								
Total, all sources	6,081	5,902	5,910	5,342	5,128	5,075	4,853	5,284
Federal, total	650	647	637	657	644	603	586	675
Dept. of Defense	267	249	178	189	209	193	180	236
Dept. of HHS, total	53	78	50	54	49	36	32	31
NIH	22	36	28	27	27	30	25	18
Other HHS	31	42	22	27	22	6	7	13
NASA ¹	N/A	N/A	N/A	N/A	27	23	32	26
NSF	165	173	215	173	171	145	175	213
USDA	5	3	1	0	1	1	4	2
All other Federal	160	144	193	241	187	205	163	167
Institutional support	1,878	1,949	1,889	1,840	1,782	1,697	1,725	1,868
Other outside support, total	568	493	551	498	461	503	534	564
All other U.S.	430	404	458	420	355	406	435	477
Foreign	138	89	93	78	106	97	99	87
Self-support	2,985	2,813	2,833	2,347	2,241	2,272	2,008	2,177

See explanatory information, if any, and SOURCE at end of table.

Table 25. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Mechanical engineering:								
Total, all sources	12,383	12,395	11,875	11,128	10,690	10,432	10,073	10,333
Federal, total	2,790	2,999	2,946	2,777	2,602	2,626	2,607	2,596
Dept. of Defense	730	797	782	823	739	766	728	713
Dept. of HHS, total	87	86	80	93	76	109	104	112
NIH	77	70	71	82	63	70	71	87
Other HHS	10	16	9	11	13	39	33	25
NASA ¹	N/A	N/A	N/A	N/A	210	291	290	242
NSF	786	812	800	743	770	841	908	886
USDA	26	9	10	4	13	12	5	22
All other Federal	1,161	1,295	1,274	1,114	794	607	572	621
Institutional support	4,400	4,231	4,086	3,909	3,954	3,913	3,829	4,037
Other outside support, total	1,618	1,561	1,573	1,601	1,459	1,460	1,611	1,603
All other U.S.	1,401	1,391	1,333	1,347	1,250	1,286	1,467	1,432
Foreign	217	170	240	254	209	174	144	171
Self-support	3,575	3,604	3,270	2,841	2,675	2,433	2,026	2,097
Other engineering:								
Total, all sources	16,566	16,631	15,623	14,912	14,344	14,100	14,255	15,244
Federal, total	5,381	5,408	5,380	5,148	4,930	4,793	4,641	4,703
Dept. of Defense	1,784	1,862	1,644	1,638	1,555	1,475	1,253	1,241
Dept. of HHS, total	462	478	458	454	416	469	476	523
NIH	434	453	420	408	389	434	433	488
Other HHS	28	25	38	46	27	35	43	35
NASA ¹	N/A	N/A	N/A	N/A	475	517	520	441
NSF	1,035	1,039	1,070	1,050	1,022	1,044	1,032	1,095
USDA	185	168	191	184	160	121	109	135
All other Federal	1,915	1,861	2,017	1,822	1,302	1,167	1,251	1,268
Institutional support	5,093	5,134	5,021	4,686	4,357	4,484	4,573	5,046
Other outside support, total	2,764	2,564	2,256	2,174	2,039	2,056	2,410	2,446
All other U.S.	2,135	2,010	1,774	1,706	1,601	1,657	2,050	2,126
Foreign	629	554	482	468	438	399	360	320
Self-support	3,328	3,525	2,966	2,904	3,018	2,767	2,631	3,049
Total, health fields:								
Total, all sources	32,108	35,679	39,109	42,111	44,497	46,633	48,468	50,490
Federal, total	7,328	7,295	7,776	7,900	7,392	7,723	7,931	8,326
Dept. of Defense	399	435	381	333	331	320	300	363
Dept. of HHS, total	5,154	5,211	5,532	5,675	5,454	5,717	5,885	6,070
NIH	2,050	2,266	2,345	2,437	2,444	2,731	2,828	3,012
Other HHS	3,104	2,945	3,187	3,238	3,010	2,986	3,057	3,058
NASA ¹	N/A	N/A	N/A	N/A	14	21	26	15
NSF	70	89	117	100	82	98	118	121
USDA	69	78	74	55	50	42	48	54
All other Federal	1,636	1,482	1,672	1,737	1,461	1,525	1,554	1,703
Institutional support	7,637	8,110	8,453	8,972	9,367	9,655	10,027	10,849
Other outside support, total	1,693	1,741	1,861	2,021	2,021	1,961	2,189	2,354
All other U.S.	1,233	1,298	1,403	1,491	1,591	1,475	1,757	1,941
Foreign	460	443	458	530	430	486	432	413
Self-support	15,450	18,533	21,019	23,218	25,717	27,294	28,321	28,961

¹ Data for NASA were not collected separately prior to 1996.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 26. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary mechanism of support: 1992-1999

Field and primary mechanism of support	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields:								
Total, all types	322,609	329,701	332,149	329,356	328,628	327,310	327,447	334,405
Fellowships	28,627	29,132	28,894	28,891	28,863	28,930	29,080	30,034
Traineeships	15,375	15,458	15,692	15,953	15,488	14,484	14,935	14,711
Research assistantships	88,030	90,154	92,008	89,946	87,694	88,002	88,098	91,308
Teaching assistantships	65,710	67,298	66,851	65,983	65,756	65,422	65,170	66,317
Other types of support	124,867	127,659	128,704	128,583	130,827	130,472	130,164	132,035
Self-support	101,311	106,299	107,054	106,715	109,550	108,801	108,306	109,340
Other support	23,556	21,360	21,650	21,868	21,277	21,671	21,858	22,695
Total, science and engineering:								
Total, all types	290,501	294,022	293,040	287,245	284,131	280,677	278,979	283,915
Fellowships	26,750	27,142	26,774	26,708	26,389	26,474	26,571	27,315
Traineeships	10,051	10,296	10,344	10,543	10,338	9,659	9,831	9,502
Research assistantships	84,079	86,208	87,642	85,357	83,328	83,139	83,101	85,965
Teaching assistantships	63,209	64,779	64,051	63,151	62,735	62,264	61,977	63,233
Other types of support	106,412	105,597	104,229	101,486	101,341	99,141	97,499	97,900
Self-support	85,861	87,766	86,035	83,497	83,833	81,507	79,985	80,379
Other support	20,551	17,831	18,194	17,989	17,508	17,634	17,514	17,521
Sciences, total:								
Total, all types	216,094	220,252	221,501	219,491	218,302	215,101	213,648	216,083
Fellowships	20,627	20,907	20,718	20,695	20,720	20,697	20,998	21,254
Traineeships	9,042	9,234	9,411	9,534	9,472	8,791	8,964	8,738
Research assistantships	56,537	58,277	59,562	58,313	56,816	56,247	55,737	57,290
Teaching assistantships	52,257	53,611	53,280	52,992	52,724	52,117	51,901	52,514
Other types of support	77,631	78,223	78,530	77,957	78,570	77,249	76,048	76,287
Self-support	63,496	65,558	65,292	65,042	66,104	64,506	63,258	63,168
Other support	14,135	12,665	13,238	12,915	12,466	12,743	12,790	13,119
Physical sciences:								
Total, all types	30,673	30,611	30,043	28,876	27,929	26,865	26,390	26,640
Fellowships	2,837	2,729	2,430	2,351	2,203	2,150	2,113	2,199
Traineeships	707	757	681	677	650	531	482	383
Research assistantships	12,445	12,293	12,378	11,825	11,504	11,282	11,046	11,270
Teaching assistantships	11,848	12,129	11,893	11,696	11,247	10,890	10,880	10,873
Other types of support	2,836	2,703	2,661	2,327	2,325	2,012	1,869	1,915
Self-support	1,959	2,089	1,864	1,611	1,621	1,421	1,314	1,350
Other support	877	614	797	716	704	591	555	565
Earth, atmos., & ocean sciences:								
Total, all types	10,984	11,351	11,452	11,262	10,797	10,527	10,445	10,492
Fellowships	894	907	865	896	870	815	922	930
Traineeships	120	153	140	131	131	92	114	109
Research assistantships	4,613	4,727	4,854	4,655	4,303	4,276	4,108	4,251
Teaching assistantships	2,450	2,519	2,481	2,508	2,527	2,648	2,559	2,613
Other types of support	2,907	3,045	3,112	3,072	2,966	2,696	2,742	2,589
Self-support	2,228	2,407	2,462	2,385	2,336	2,136	2,185	1,929
Other support	679	638	650	687	630	560	557	660
Mathematical sciences:								
Total, all types	14,679	14,530	14,226	13,410	12,966	12,144	11,751	11,792
Fellowships	1,416	1,363	1,216	1,297	1,285	1,206	1,104	1,035
Traineeships	220	258	244	222	179	179	164	112
Research assistantships	1,410	1,436	1,534	1,451	1,296	1,389	1,215	1,270
Teaching assistantships	7,739	7,586	7,634	7,293	7,127	6,699	6,566	6,762
Other types of support	3,894	3,887	3,598	3,147	3,079	2,671	2,702	2,613
Self-support	2,978	3,138	2,816	2,476	2,339	2,032	1,965	1,987
Other support	916	749	782	671	740	639	737	626
Computer sciences:								
Total, all types	17,505	17,401	16,701	16,510	17,195	18,335	19,972	22,708
Fellowships	885	810	908	911	930	942	1,011	1,006
Traineeships	148	229	281	227	210	224	219	212
Research assistantships	3,680	3,802	3,905	3,918	3,979	4,043	4,300	4,895
Teaching assistantships	3,543	3,594	3,370	3,374	3,379	3,643	3,798	4,385
Other types of support	9,249	8,966	8,237	8,080	8,697	9,483	10,644	12,210
Self-support	7,887	7,587	6,803	6,546	7,284	8,066	9,146	10,730
Other support	1,362	1,379	1,434	1,534	1,413	1,417	1,498	1,480

See explanatory information, if any, and SOURCE at end of table.

Table 26. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary mechanism of support: 1992-1999

Field and primary mechanism of support	1992	1993	1994	1995	1996	1997	1998	1999
Agricultural sciences:								
Total, all types	9,454	9,484	9,510	9,633	9,327	9,133	9,015	9,210
Fellowships	505	532	522	492	455	470	479	463
Traineeships	130	171	132	146	137	129	115	94
Research assistantships	5,176	5,241	5,388	5,381	5,172	5,088	4,984	5,126
Teaching assistantships	791	887	889	939	946	962	1,017	1,151
Other types of support	2,852	2,653	2,579	2,675	2,617	2,484	2,420	2,376
Self-support	2,153	2,201	2,101	2,200	2,227	2,112	1,975	1,933
Other support	699	452	478	475	390	372	445	443
Biological sciences:								
Total, all types	44,392	46,487	48,026	48,366	47,782	47,011	47,105	47,268
Fellowships	5,058	5,234	5,523	5,386	5,284	5,486	5,648	5,803
Traineeships	4,830	4,918	5,227	5,302	5,342	5,060	5,205	5,285
Research assistantships	17,630	18,859	19,447	19,282	18,710	18,639	18,346	18,499
Teaching assistantships	8,947	9,163	9,339	9,311	9,361	9,182	9,137	8,767
Other types of support	7,927	8,313	8,490	9,085	9,085	8,644	8,769	8,914
Self-support	5,701	6,379	6,443	6,981	7,040	6,728	6,794	6,869
Other support	2,226	1,934	2,047	2,104	2,045	1,916	1,975	2,045
Psychology:								
Total, all types	34,162	34,782	35,288	35,222	35,412	35,551	35,148	34,715
Fellowships	1,858	1,930	1,847	1,844	1,982	2,145	2,337	2,478
Traineeships	1,173	1,113	1,044	1,081	1,166	1,067	1,113	1,022
Research assistantships	4,304	4,557	4,655	4,585	4,762	4,790	4,762	4,795
Teaching assistantships	5,769	6,253	6,058	6,112	6,128	6,162	5,976	6,032
Other types of support	21,058	20,929	21,684	21,600	21,374	21,387	20,960	20,388
Self-support	17,796	17,835	18,498	18,705	18,583	18,132	17,611	16,808
Other support	3,262	3,094	3,186	2,895	2,791	3,255	3,349	3,580
Social sciences:								
Total, all types	54,245	55,606	56,255	56,212	56,894	55,535	53,822	53,258
Fellowships	7,174	7,402	7,407	7,518	7,711	7,483	7,384	7,340
Traineeships	1,714	1,635	1,662	1,748	1,657	1,509	1,552	1,521
Research assistantships	7,279	7,362	7,401	7,216	7,090	6,740	6,976	7,184
Teaching assistantships	11,170	11,480	11,616	11,759	12,009	11,931	11,968	11,931
Other types of support	26,908	27,727	28,169	27,971	28,427	27,872	25,942	25,282
Self-support	22,794	23,922	24,305	24,138	24,674	23,879	22,268	21,562
Other support	4,114	3,805	3,864	3,833	3,753	3,993	3,674	3,720
Engineering, total:								
Total, all types	74,407	73,770	71,539	67,754	65,829	65,576	65,331	67,832
Fellowships	6,123	6,235	6,056	6,013	5,669	5,777	5,573	6,061
Traineeships	1,009	1,062	933	1,009	866	868	867	764
Research assistantships	27,542	27,931	28,080	27,044	26,512	26,892	27,364	28,675
Teaching assistantships	10,952	11,168	10,771	10,159	10,011	10,147	10,076	10,719
Other types of support	28,781	27,374	25,699	23,529	22,771	21,892	21,451	21,613
Self-support	22,365	22,208	20,743	18,455	17,729	17,001	16,727	17,211
Other support	6,416	5,166	4,956	5,074	5,042	4,891	4,724	4,402
Chemical engineering:								
Total, all types	5,946	6,041	6,105	5,957	5,909	5,784	5,601	5,569
Fellowships	738	719	705	791	763	836	726	834
Traineeships	153	123	98	105	93	94	97	65
Research assistantships	3,012	3,120	3,270	3,104	3,052	2,967	2,879	2,922
Teaching assistantships	1,021	1,018	947	909	920	920	895	968
Other types of support	1,022	1,061	1,085	1,048	1,081	967	1,004	780
Self-support	814	894	824	847	856	779	854	652
Other support	208	167	261	201	225	188	150	128
Civil engineering:								
Total, all types	12,454	12,458	12,641	12,248	11,791	11,331	11,079	11,178
Fellowships	802	904	888	918	884	850	802	837
Traineeships	219	210	191	196	178	180	180	192
Research assistantships	3,936	4,048	4,254	4,225	4,124	3,984	3,872	4,099
Teaching assistantships	1,648	1,818	1,901	1,846	1,788	1,769	1,752	1,788
Other types of support	5,849	5,478	5,407	5,063	4,817	4,548	4,473	4,262
Self-support	4,558	4,630	4,576	4,241	3,997	3,741	3,738	3,565
Other support	1,291	848	831	822	820	807	735	697

See explanatory information, if any, and SOURCE at end of table.

Table 26. Full-time graduate students in science, engineering, and health fields in all institutions, by field and primary mechanism of support: 1992-1999

Field and primary mechanism of support	1992	1993	1994	1995	1996	1997	1998	1999
Industrial engineering:								
Total, all types	6,081	5,902	5,910	5,342	5,128	5,075	4,853	5,284
Fellowships	269	281	270	299	234	239	252	242
Traineeships	27	48	32	37	14	21	24	22
Research assistantships	1,235	1,271	1,342	1,339	1,282	1,264	1,368	1,410
Teaching assistantships	891	935	933	823	784	773	777	880
Other types of support	3,659	3,367	3,333	2,844	2,814	2,778	2,432	2,730
Self-support	2,985	2,813	2,833	2,347	2,241	2,272	2,008	2,177
Other support	674	554	500	497	573	506	424	553
Mechanical engineering:								
Total, all types	12,383	12,395	11,875	11,128	10,690	10,432	10,073	10,333
Fellowships	909	926	943	944	907	846	902	872
Traineeships	168	211	187	187	165	215	180	142
Research assistantships	4,731	4,787	4,688	4,413	4,272	4,349	4,498	4,647
Teaching assistantships	2,185	2,255	2,069	1,930	1,860	1,887	1,780	1,946
Other types of support	4,390	4,216	3,988	3,654	3,486	3,135	2,713	2,726
Self-support	3,575	3,604	3,270	2,841	2,675	2,433	2,026	2,097
Other support	815	612	718	813	811	702	687	629
Other engineering:								
Total, all types	16,566	16,631	15,623	14,912	14,344	14,100	14,255	15,244
Fellowships	1,904	1,932	1,747	1,615	1,493	1,614	1,573	1,915
Traineeships	280	279	267	328	264	236	253	267
Research assistantships	7,759	7,780	7,673	7,269	6,863	6,821	7,063	7,190
Teaching assistantships	1,751	1,707	1,681	1,546	1,494	1,451	1,530	1,748
Other types of support	4,872	4,933	4,255	4,154	4,230	3,978	3,836	4,124
Self-support	3,328	3,525	2,966	2,904	3,018	2,767	2,631	3,049
Other support	1,544	1,408	1,289	1,250	1,212	1,211	1,205	1,075
Total, health fields:								
Total, all types	32,108	35,679	39,109	42,111	44,497	46,633	48,468	50,490
Fellowships	1,877	1,990	2,120	2,183	2,474	2,456	2,509	2,719
Traineeships	5,324	5,162	5,348	5,410	5,150	4,825	5,104	5,209
Research assistantships	3,951	3,946	4,366	4,589	4,366	4,863	4,997	5,343
Teaching assistantships	2,501	2,519	2,800	2,832	3,021	3,158	3,193	3,084
Other types of support	18,455	22,062	24,475	27,097	29,486	31,331	32,665	34,135
Self-support	15,450	18,533	21,019	23,218	25,717	27,294	28,321	28,961
Other support	3,005	3,529	3,456	3,879	3,769	4,037	4,344	5,174

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 27. Full-time graduate students in science and engineering fields in all institutions,
by primary mechanism and primary source of support: 1992-1999

Primary mechanism and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Total, all types:								
Total, all sources	290,501	294,022	293,040	287,245	284,131	280,677	278,979	283,915
Federal, total	58,298	60,393	60,790	59,410	57,859	56,806	55,828	57,438
Dept. of Defense	8,848	9,315	9,068	9,006	8,471	8,701	7,959	7,674
Dept. of HHS, total	16,274	16,827	17,148	17,112	16,917	16,820	16,742	17,256
NIH	15,043	15,871	15,950	15,674	15,488	15,356	15,310	15,998
Other HHS	1,231	956	1,198	1,438	1,429	1,464	1,432	1,258
NASA ¹	N/A	N/A	N/A	N/A	2,295	2,565	2,620	2,582
NSF	13,296	13,441	13,873	13,561	13,330	13,264	13,341	13,728
USDA	3,147	3,246	3,348	3,199	2,954	2,604	2,437	2,589
All other Federal	16,733	17,564	17,353	16,532	13,892	12,852	12,729	13,609
Institutional support	120,266	120,890	120,821	120,408	119,057	119,296	119,008	122,322
Other outside support, total	26,076	24,973	25,394	23,930	23,382	23,068	24,158	23,776
All other U.S.	20,076	19,935	20,134	18,913	18,563	18,741	20,371	20,297
Foreign	6,000	5,038	5,260	5,017	4,819	4,327	3,787	3,479
Self-support	85,861	87,766	86,035	83,497	83,833	81,507	79,985	80,379
Fellowships:								
Total, all sources	26,750	27,142	26,774	26,708	26,389	26,474	26,571	27,315
Federal, total	7,222	6,998	6,360	6,364	6,434	6,262	6,341	6,590
Dept. of Defense	648	627	523	470	508	522	536	484
Dept. of HHS, total	985	1,033	1,048	1,167	1,153	1,231	1,287	1,341
NIH	868	919	917	966	974	1,004	1,059	1,171
Other HHS	117	114	131	201	179	227	228	170
NASA ¹	N/A	N/A	N/A	N/A	410	373	380	358
NSF	2,354	2,267	2,275	2,323	2,451	2,309	2,335	2,411
USDA	113	113	112	136	111	138	139	143
All other Federal	3,122	2,958	2,402	2,268	1,801	1,689	1,664	1,853
Institutional support	13,409	13,980	13,928	14,299	14,402	15,240	15,245	15,967
Other outside support, total	6,119	6,164	6,486	6,045	5,553	4,972	4,985	4,758
All other U.S.	3,798	3,702	4,069	3,813	3,402	3,118	3,280	3,262
Foreign	2,321	2,462	2,417	2,232	2,151	1,854	1,705	1,496
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traineeships:								
Total, all sources	10,051	10,296	10,344	10,543	10,338	9,659	9,831	9,502
Federal, total	5,551	5,773	5,857	5,630	5,515	5,143	5,427	5,410
Dept. of Defense	94	113	122	104	124	108	64	51
Dept. of HHS, total	4,387	4,378	4,493	4,347	4,256	3,977	4,235	4,360
NIH	4,106	4,194	4,206	3,990	3,990	3,793	4,057	4,161
Other HHS	281	184	287	357	266	184	178	199
NASA ¹	N/A	N/A	N/A	N/A	67	76	57	51
NSF	104	165	258	338	431	383	408	344
USDA	28	42	37	18	24	23	14	25
All other Federal	938	1,075	947	823	613	576	649	579
Institutional support	3,712	3,635	3,606	4,214	4,254	3,877	3,730	3,459
Other outside support, total	788	888	881	699	569	639	674	633
All other U.S.	581	594	660	504	385	488	541	544
Foreign	207	294	221	195	184	151	133	89
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Research assistantships:								
Total, all sources	84,079	86,208	87,642	85,357	83,328	83,139	83,101	85,985
Federal, total	41,075	43,029	43,896	42,938	41,828	41,478	39,969	41,050
Dept. of Defense	5,703	6,204	6,178	6,261	5,965	6,308	5,784	5,663
Dept. of HHS, total	10,473	10,976	11,233	11,168	11,038	11,105	10,583	10,802
NIH	9,700	10,386	10,518	10,370	10,157	10,153	9,646	10,051
Other HHS	773	590	715	798	881	952	937	751
NASA ¹	N/A	N/A	N/A	N/A	1,775	2,059	2,122	2,126
NSF	10,628	10,769	11,145	10,600	10,223	10,392	10,375	10,730
USDA	2,896	2,964	3,073	2,946	2,707	2,371	2,192	2,304
All other Federal	11,375	12,116	12,267	11,963	10,120	9,243	8,913	9,425
Institutional support	29,955	29,904	30,643	30,156	29,179	29,040	29,858	31,529
Other outside support, total	13,049	13,275	13,103	12,263	12,321	12,621	13,274	13,386
All other U.S.	12,238	12,417	12,340	11,523	11,582	11,881	12,646	12,789
Foreign	811	858	763	740	739	740	628	597
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

See explanatory information, if any, and SOURCE at end of table.

**Table 27. Full-time graduate students in science and engineering fields in all institutions,
by primary mechanism and primary source of support: 1992-1999**

Primary mechanism and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Teaching assistantships:								
Total, all sources	63,209	64,779	64,051	63,151	62,735	62,264	61,977	63,233
Federal, total	574	776	677	646	741	787	971	876
Dept. of Defense	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dept. of HHS, total	166	162	136	113	180	157	232	203
NIH	149	156	127	106	176	127	221	196
Other HHS	17	6	9	7	4	30	11	7
NASA ¹	N/A	N/A	N/A	N/A	2	24	23	9
NSF	112	140	107	157	117	80	130	121
USDA	28	46	49	37	42	30	37	60
All other Federal	268	428	385	339	400	496	549	483
Institutional support	62,094	63,419	62,764	61,967	61,372	60,885	60,391	61,681
Other outside support, total	541	584	610	538	622	592	615	676
All other U.S.	541	584	610	538	622	592	615	676
Foreign	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other types of support:								
Total, all sources	106,412	105,597	104,229	101,486	101,341	99,141	97,499	97,900
Federal, total	3,876	3,817	4,000	3,832	3,341	3,136	3,120	3,512
Dept. of Defense	2,403	2,371	2,245	2,171	1,874	1,763	1,575	1,476
Dept. of HHS, total	263	278	238	317	290	350	405	550
NIH	220	216	182	242	191	279	327	419
Other HHS	43	62	56	75	99	71	78	131
NASA ¹	N/A	N/A	N/A	N/A	41	33	38	38
NSF	98	100	88	143	108	100	93	122
USDA	82	81	77	62	70	42	55	57
All other Federal	1,030	987	1,352	1,139	958	848	954	1,269
Institutional support	11,096	9,952	9,880	9,772	9,850	10,254	9,784	9,686
Other outside support, total	5,579	4,062	4,314	4,385	4,317	4,244	4,610	4,323
All other U.S.	2,918	2,638	2,455	2,535	2,572	2,662	3,289	3,026
Foreign	2,661	1,424	1,859	1,850	1,745	1,582	1,321	1,297
Self-support	85,861	87,766	86,035	83,497	83,833	81,507	79,985	80,379

¹ Data for NASA were not collected separately prior to 1996.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 28. Full-time students in graduate school for the first time in science, engineering, and health fields in all institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	95,825	92,782	92,206	89,518	89,028	89,193	90,878	92,011
Total, science and engineering fields	83,133	79,307	78,050	74,378	73,462	73,576	74,362	75,247
Sciences, total	60,891	58,970	58,283	56,305	55,464	54,764	55,139	54,814
Physical sciences, total	6,910	6,690	6,454	6,127	6,014	6,029	5,932	5,978
Astronomy	161	153	164	147	157	125	162	171
Chemistry	3,910	3,842	3,813	3,708	3,702	3,758	3,682	3,654
Physics	2,773	2,642	2,381	2,188	2,088	2,074	2,046	2,066
Physical sciences, n.e.c.	66	53	96	84	67	72	42	87
Earth, atmos., & ocean sci., total	3,016	2,985	3,009	2,803	2,632	2,689	2,859	2,739
Atmospheric sciences	235	214	224	198	213	224	189	203
Geosciences	1,506	1,506	1,522	1,427	1,328	1,349	1,349	1,296
Oceanography	501	487	518	418	370	408	470	467
Earth, atmos., & ocean sci., n.e.c.	774	778	745	760	721	708	851	773
Mathematical sciences	4,443	4,044	3,963	3,578	3,450	3,302	3,334	3,265
Computer sciences	5,479	4,742	4,756	4,783	4,917	5,018	5,758	6,677
Agricultural sciences	2,221	2,303	2,304	2,242	2,130	2,107	2,256	2,200
Biological sciences, total	10,893	11,117	11,379	11,423	10,839	11,115	11,405	11,028
Anatomy	220	188	214	235	242	199	196	175
Biochemistry	1,027	1,089	1,034	985	950	1,000	1,028	900
Biology	2,789	2,752	2,733	2,688	2,574	2,671	2,494	2,523
Biometry/epidemiology	603	667	657	738	671	661	813	801
Biophysics	145	143	149	153	155	133	158	118
Botany	548	517	483	443	443	415	449	404
Cell biology	666	708	769	734	761	815	881	839
Ecology	212	250	285	308	245	244	256	248
Entomology/parasitology	216	239	206	184	202	194	233	179
Genetics	296	342	345	344	387	436	395	425
Microbio., immunology, & virology	873	845	906	910	848	871	872	914
Nutrition	764	836	795	854	825	789	937	822
Pathology	268	324	334	296	291	350	279	320
Pharmacology	553	516	533	500	422	458	513	487
Physiology	589	616	649	811	725	633	654	612
Zoology	393	379	348	356	327	326	280	282
Biosciences, n.e.c.	731	706	939	884	771	920	967	979
Psychology	10,172	9,686	9,530	9,241	9,140	8,800	8,590	8,319
Social sciences, total	17,757	17,403	16,888	16,108	16,342	15,704	15,005	14,608
Agricultural economics	683	570	533	492	436	467	417	480
Anthropology (cultural & social)	1,289	1,309	1,331	1,247	1,252	1,196	1,219	1,193
Economics (except agricultural)	3,007	2,837	2,793	2,605	2,466	2,368	2,352	2,355
Geography	886	999	959	836	870	914	805	830
Linguistics	650	611	612	594	620	579	493	422
Political science	6,714	6,567	6,131	5,916	5,842	5,264	4,953	4,731
Sociology	1,774	1,732	1,548	1,503	1,505	1,525	1,428	1,307
Sociology/anthropology	202	200	229	147	210	171	177	144
Social sciences, other	2,552	2,578	2,752	2,768	3,141	3,220	3,161	3,146
Engineering, total	22,242	20,337	19,767	18,073	17,998	18,812	19,223	20,433
Aerospace engineering	1,053	963	793	650	687	735	717	727
Agricultural engineering	193	161	193	177	183	165	155	202
Biomedical engineering	599	601	566	592	572	671	695	734
Chemical engineering	1,480	1,520	1,461	1,418	1,470	1,462	1,496	1,480
Civil engineering	4,331	4,019	4,194	3,825	3,845	3,761	3,754	3,683
Electrical engineering	6,110	5,484	5,450	4,974	4,850	5,505	5,685	6,300
Engineering science	347	316	313	275	273	274	308	255
Industrial/manufacturing eng.	1,926	1,647	1,721	1,523	1,591	1,532	1,528	1,796
Mechanical engineering	3,820	3,514	3,218	2,832	2,785	2,829	2,923	3,108
Metallurgical/materials eng.	997	871	842	805	777	850	886	878
Nuclear engineering	283	258	208	187	182	178	153	150
Engineering, other	1,103	983	808	815	783	850	923	1,120
Total, health fields	12,692	13,475	14,156	15,140	15,566	15,617	16,516	16,764
Clinical fields	836	795	780	811	885	992	860	804
Dental sciences	410	419	405	373	386	377	393	327
Nursing	2,391	2,420	2,615	2,685	2,653	2,867	2,808	2,967
Pharmaceutical sciences	474	478	482	457	519	486	548	597
Preventive medicine/community health	2,146	2,299	2,204	2,585	2,296	2,158	2,621	2,728
Speech pathology/audiology	3,187	3,328	3,519	3,615	3,911	3,830	4,060	3,987
Veterinary sciences	155	138	158	157	119	128	189	159
Other health fields	3,093	3,598	3,993	4,457	4,797	4,779	5,037	5,195

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 29. Graduate students in science, engineering, and health fields in all institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	493,425	25,260	2,000	32,721	20,338	275,514	22,225	115,367
Total, science and engineering fields	411,308	20,341	1,557	27,562	16,514	216,865	18,565	109,904
Sciences, total	309,840	17,375	1,315	19,408	13,595	174,851	14,809	68,487
Physical sciences, total	30,689	903	69	1,683	891	15,048	973	11,122
Astronomy	832	9	2	31	13	511	27	239
Chemistry	18,414	633	53	1,133	616	9,405	500	6,074
Physics	10,869	234	13	491	227	4,840	334	4,730
Physical sciences, n.e.c.	574	27	1	28	35	292	112	79
Earth, atmos., & ocean sci., total	14,082	213	63	400	382	10,022	480	2,522
Atmospheric sciences	913	7	2	41	7	552	30	274
Geosciences	6,652	62	26	144	154	4,810	232	1,224
Oceanography	2,608	28	12	67	114	1,816	53	518
Earth, atmos., & ocean sci., n.e.c.	3,909	116	23	148	107	2,844	165	506
Mathematical sciences, total	16,254	594	30	1,002	446	7,662	598	5,922
Mathematics & applied mathematics	13,530	543	26	801	400	6,564	536	4,660
Statistics	2,724	51	4	201	46	1,098	62	1,262
Computer sciences	42,560	1,501	75	6,156	872	14,423	2,378	17,155
Agricultural sciences	12,036	277	68	306	428	8,196	270	2,491
Biological sciences, total	57,320	2,258	187	4,461	2,181	34,529	2,397	11,307
Anatomy	913	35	3	80	27	554	19	195
Biochemistry	5,120	140	6	541	152	2,680	142	1,459
Biology	13,996	747	59	800	676	8,894	797	2,023
Biometry/epidemiology	3,575	188	5	377	155	1,939	176	735
Biophysics	710	17	1	100	17	383	38	154
Botany	2,261	55	4	77	49	1,369	60	847
Cell biology	4,402	110	9	457	150	2,635	188	853
Ecology	1,687	22	5	45	41	1,346	54	174
Entomology/parasitology	1,145	17	1	19	27	757	22	302
Genetics	1,767	50	4	161	58	1,016	99	379
Microbio., immunology, & virology	4,910	191	16	418	204	2,845	267	969
Nutrition	4,449	217	15	232	183	2,849	95	1,058
Pathology	1,580	49	7	180	56	926	67	295
Pharmacology	2,757	151	14	288	92	1,589	54	569
Physiology	2,100	81	9	276	84	1,126	68	456
Zoology	1,614	16	7	50	31	1,305	39	166
Biosciences, n.e.c.	4,334	172	22	360	179	2,516	212	873
Psychology, total	51,874	3,787	303	2,044	3,575	36,356	3,569	2,240
Psychology, general	16,353	1,375	96	668	931	11,696	852	735
Clinical psychology	12,716	690	92	576	1,170	9,169	626	393
Psychology, n.e.c.	22,805	1,722	115	800	1,474	15,491	2,091	1,112
Social sciences, total	85,025	7,842	520	3,356	4,820	48,615	4,144	15,728
Agricultural economics	2,014	84	7	53	35	881	28	926
Anthropology (cultural & social)	7,633	291	105	256	327	5,440	391	823
Economics (except agricultural)	10,562	291	13	597	247	3,595	286	5,533
Geography	4,250	92	14	101	111	3,131	203	598
History and philosophy of science	557	14	2	20	22	424	16	59
Linguistics	2,799	49	15	148	135	1,375	115	962
Political science	31,398	4,094	177	1,162	2,170	18,287	1,584	3,924
Sociology	8,966	1,061	66	398	641	5,304	320	1,176
Sociology/anthropology	741	98	9	8	33	492	19	82
Social sciences, n.e.c.	16,105	1,768	112	613	1,099	9,686	1,182	1,845
Engineering, total	101,468	2,966	242	8,154	2,919	42,014	3,756	41,417
Aerospace engineering	3,349	52	8	153	80	1,437	87	1,532
Agricultural engineering	934	23	1	41	16	423	22	408
Biomedical engineering	3,121	104	8	308	86	1,664	84	867
Chemical engineering	6,849	147	16	486	184	2,785	233	2,998
Civil engineering	16,190	451	56	924	698	8,069	577	5,415
Electrical engineering	31,368	885	47	3,488	768	9,826	1,266	15,088
Engineering science	1,627	35	6	170	44	787	51	534
Industrial/manufacturing eng.	10,886	459	36	714	395	5,261	484	3,537
Mechanical engineering	14,956	375	33	1,008	388	6,491	465	6,196
Metallurgical/materials eng.	4,451	90	10	240	75	1,915	86	2,035
Mining engineering	328	1	0	50	2	162	4	109
Nuclear engineering	830	15	2	22	28	424	7	332
Petroleum engineering	642	5	0	11	5	124	3	494
Engineering, n.e.c.	5,937	324	19	539	150	2,846	387	1,872

See explanatory information, if any, and SOURCE at end of table.

Table 29. Graduate students in science, engineering, and health fields in all institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, health fields	82,117	4,919	443	5,159	3,824	58,649	3,660	5,463
Medical fields, total	17,244	1,410	109	1,822	1,211	9,852	945	1,895
Anesthesiology	898	30	3	20	8	631	205	1
Cardiology	63	1	0	20	2	23	0	17
Oncology/cancer research	250	8	2	27	6	154	1	52
Endocrinology	67	2	0	20	1	24	3	17
Gastroenterology	7	0	2	0	0	5	0	0
Hematology	5	0	0	1	0	4	0	0
Neurology	1,888	53	11	173	78	1,202	107	264
Obstetrics and gynecology	16	1	0	3	0	11	0	1
Ophthalmology	49	0	0	11	0	21	0	17
Otorhinolaryngology	3	0	0	0	0	1	0	2
Pediatrics	316	31	2	20	15	209	15	24
Preventive medicine/community health	11,866	1,208	80	1,249	989	6,518	483	1,339
Psychiatry	119	4	1	5	1	103	2	3
Pulmonary disease	6	1	0	2	0	3	0	0
Radiology	229	3	0	26	8	151	9	32
Surgery	122	3	1	20	2	86	2	8
Clinical medicine, n.e.c.	1,340	65	7	225	101	706	118	118
Other health fields, total	64,873	3,509	334	3,337	2,613	48,797	2,715	3,568
Dental sciences	1,383	33	1	168	75	828	13	265
Nursing	25,068	1,572	179	1,009	938	19,794	1,046	530
Pharmaceutical sciences	3,422	212	9	453	183	1,257	54	1,254
Speech pathology/audiology	13,653	542	57	304	523	11,327	512	388
Veterinary sciences	1,216	44	8	24	27	763	22	328
Health related, n.e.c.	20,131	1,106	80	1,379	867	14,828	1,068	803

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 30. Male graduate students in science, engineering, and health fields in all institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	262,692	9,555	851	17,748	9,207	134,438	11,389	79,504
Total, science and engineering fields	242,840	8,592	745	16,047	8,223	121,860	10,419	76,954
Sciences, total	161,215	6,603	570	9,903	5,991	87,721	7,417	43,010
Physical sciences, total	21,784	501	40	1,047	552	10,876	689	8,079
Astronomy	607	6	1	18	10	365	21	186
Chemistry	11,804	315	30	638	334	6,216	330	3,941
Physics	8,996	164	8	374	186	4,101	259	3,904
Physical sciences, n.e.c.	377	16	1	17	22	194	79	48
Earth, atmos., & ocean sci., total	8,362	112	32	208	196	5,881	270	1,663
Atmospheric sciences	671	3	2	33	4	441	19	169
Geosciences	4,245	31	13	78	86	2,991	153	893
Oceanography	1,398	14	7	31	56	933	25	332
Earth, atmos., & ocean sci., n.e.c.	2,048	64	10	66	50	1,516	73	269
Mathematical sciences	10,213	324	12	565	270	4,800	379	3,863
Computer sciences	29,990	824	51	3,834	659	10,889	1,711	12,022
Agricultural sciences	7,121	135	46	139	222	4,759	160	1,660
Biological sciences, total	27,560	786	80	2,102	961	16,637	1,181	5,813
Anatomy	482	14	1	46	16	285	10	110
Biochemistry	2,846	64	2	306	82	1,515	81	796
Biology	6,850	265	27	360	314	4,450	400	1,034
Biometry/epidemiology	1,308	54	2	113	47	657	76	359
Biophysics	497	9	0	71	15	266	25	111
Botany	1,168	32	0	29	22	685	36	364
Cell biology	2,160	47	1	206	74	1,343	90	399
Ecology	817	11	3	18	15	648	22	100
Entomology/parasitology	739	9	0	9	16	474	13	218
Genetics	760	20	1	79	24	391	36	209
Microbio., immunology, & virology	2,407	64	11	197	95	1,428	136	476
Nutrition	1,069	41	2	55	28	543	24	376
Pathology	776	14	6	94	28	436	29	169
Pharmacology	1,414	55	4	146	40	852	27	290
Physiology	1,190	28	3	170	44	637	42	266
Zoology	907	5	4	21	21	743	18	95
Biosciences, n.e.c.	2,170	54	13	182	80	1,284	116	441
Psychology	14,497	915	88	537	958	10,223	986	790
Social sciences, total	41,688	3,006	221	1,471	2,173	23,656	2,041	9,120
Agricultural economics	1,301	49	6	35	20	572	15	604
Anthropology (cultural & social)	2,989	82	45	73	129	2,130	155	375
Economics (except agricultural)	7,063	158	4	357	159	2,445	187	3,753
Geography	2,547	48	9	47	64	1,889	129	361
Linguistics	966	13	5	34	35	474	43	362
Political science	15,816	1,568	86	529	981	9,543	827	2,282
Sociology	3,227	373	26	144	262	1,798	113	511
Sociology/anthropology	271	32	4	4	15	173	9	34
Social sciences, other	7,508	683	36	248	508	4,632	563	838
Engineering, total	81,625	1,989	175	6,144	2,232	34,139	3,002	33,944
Aerospace engineering	2,926	44	8	132	70	1,239	69	1,364
Agricultural engineering	683	17	1	26	12	310	10	307
Biomedical engineering	2,117	54	7	203	50	1,144	52	607
Chemical engineering	5,123	68	11	310	131	2,144	170	2,289
Civil engineering	12,010	277	43	607	500	5,958	424	4,201
Electrical engineering	26,402	685	36	2,784	632	8,743	1,063	12,459
Engineering science	1,308	28	5	127	29	650	39	430
Industrial eng./manufacturing eng.	8,463	265	21	538	276	4,054	383	2,926
Mechanical engineering	13,169	287	25	829	336	5,742	400	5,550
Metallurgical/materials eng.	3,379	48	5	155	49	1,479	70	1,573
Nuclear engineering	686	7	1	16	23	358	6	275
Engineering, other	5,359	209	12	417	124	2,318	316	1,963

See explanatory information, if any, and SOURCE at end of table.

**Table 30. Male graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and racial/ethnic background
of U.S. citizens and permanent residents: 1999**

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, health fields	19,852	963	106	1,701	984	12,578	970	2,550
Clinical fields	1,646	58	8	216	54	963	204	143
Dental sciences	867	15	0	92	39	547	10	164
Nursing	2,261	88	21	98	131	1,741	129	53
Pharmaceutical sciences	1,732	86	1	222	70	678	25	650
Preventive medicine/community health	4,362	319	30	442	303	2,331	172	765
Speech pathology/audiology	1,057	51	9	23	50	822	36	66
Veterinary sciences	535	19	2	10	15	290	10	189
Other health fields	7,392	327	35	598	322	5,206	384	520

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 31. Female graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and racial/ethnic background
of U.S. citizens and permanent residents: 1999**

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	230,733	15,705	1,149	14,973	11,131	141,076	10,836	35,863
Total, science and engineering fields	168,468	11,749	812	11,515	8,291	95,005	8,146	32,950
Sciences, total	148,625	10,772	745	9,505	7,604	87,130	7,392	25,477
Physical sciences, total	8,905	402	29	636	339	4,172	284	3,043
Astronomy	225	3	1	13	3	146	6	53
Chemistry	6,610	318	23	495	282	3,189	170	2,133
Physics	1,873	70	5	117	41	739	75	826
Physical sciences, n.e.c.	197	11	0	11	13	98	33	31
Earth, atmos., & ocean sci., total	5,720	101	31	192	186	4,141	210	859
Atmospheric sciences	242	4	0	8	3	111	11	105
Geosciences	2,407	31	13	66	68	1,819	79	331
Oceanography	1,210	14	5	36	58	883	28	186
Earth, atmos., & ocean sci., n.e.c.	1,861	52	13	82	57	1,328	92	237
Mathematical sciences	6,041	270	18	437	176	2,862	219	2,059
Computer sciences	12,570	677	24	2,322	213	3,534	667	5,133
Agricultural sciences	4,915	142	22	167	206	3,437	110	831
Biological sciences, total	29,760	1,472	107	2,359	1,220	17,892	1,216	5,494
Anatomy	431	21	2	34	11	269	9	85
Biochemistry	2,274	76	4	235	70	1,165	61	663
Biology	7,146	482	32	440	362	4,444	397	989
Biometry/epidemiology	2,267	134	3	264	108	1,282	100	376
Biophysics	213	8	1	29	2	117	13	43
Botany	1,093	23	4	48	27	684	24	283
Cell biology	2,242	63	8	251	76	1,292	98	454
Ecology	870	11	2	27	26	698	32	74
Entomology/parasitology	406	8	1	10	11	283	9	84
Genetics	1,007	30	3	82	34	625	63	170
Microbio., immunology, & virology	2,503	127	5	221	109	1,417	131	493
Nutrition	3,380	176	13	177	155	2,106	71	682
Pathology	804	35	1	86	28	490	38	126
Pharmacology	1,343	96	10	142	52	737	27	279
Physiology	910	53	6	106	40	489	26	190
Zoology	707	11	3	29	10	562	21	71
Biosciences, n.e.c.	2,164	118	9	178	99	1,232	96	432
Psychology	37,377	2,872	215	1,507	2,617	26,133	2,583	1,450
Social sciences, total	43,337	4,836	299	1,885	2,647	24,959	2,103	6,608
Agricultural economics	713	35	1	18	15	309	13	322
Anthropology (cultural & social)	4,644	209	60	183	198	3,310	236	448
Economics (except agricultural)	3,499	133	9	240	88	1,150	99	1,780
Geography	1,703	44	5	54	47	1,242	74	237
Linguistics	1,833	36	10	114	100	901	72	600
Political science	15,582	2,526	91	633	1,189	8,744	757	1,642
Sociology	5,739	688	40	254	379	3,506	207	665
Sociology/anthropology	470	66	5	4	18	319	10	48
Social sciences, other	9,154	1,099	78	385	613	5,478	635	866
Engineering, total	19,843	977	67	2,010	687	7,875	754	7,473
Aerospace engineering	423	8	0	21	10	198	18	168
Agricultural engineering	251	6	0	15	4	113	12	101
Biomedical engineering	1,004	50	1	105	36	520	32	260
Chemical engineering	1,726	79	5	176	53	641	63	709
Civil engineering	4,180	174	13	317	198	2,111	153	1,214
Electrical engineering	4,966	200	11	704	136	1,083	203	2,629
Engineering science	319	7	1	43	15	137	12	104
Industrial eng./manufacturing eng.	2,423	194	15	176	119	1,207	101	611
Mechanical engineering	1,787	88	8	179	52	749	65	646
Metallurgical/materials eng.	1,072	42	5	85	26	436	16	462
Nuclear engineering	144	8	1	6	5	66	1	57
Engineering, other	1,548	121	7	183	33	614	78	512

See explanatory information, if any, and SOURCE at end of table.

**Table 31. Female graduate students in science, engineering, and health fields in all institutions,
by detailed field, citizenship, and racial/ethnic background
of U.S. citizens and permanent residents: 1999**

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, health fields	62,265	3,956	337	3,458	2,840	46,071	2,690	2,913
Clinical fields	1,844	91	10	184	90	1,169	151	149
Dental sciences	516	18	1	76	36	281	3	101
Nursing	22,807	1,484	158	911	807	18,053	917	477
Pharmaceutical sciences	1,690	126	8	231	113	579	29	604
Preventive medicine/community health	7,504	889	50	807	686	4,187	311	574
Speech pathology/audiology	12,596	491	48	281	473	10,505	476	322
Veterinary sciences	681	25	6	14	12	473	12	139
Other health fields	14,627	832	56	954	623	10,824	791	547

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all institutions	309,840	17,375	1,315	19,408	13,595	174,851	14,809	68,487
New England	21,964	513	56	1,207	481	11,307	2,049	6,351
Connecticut	5,007	130	12	245	123	2,741	326	1,430
Central Connecticut State University	56	3	1	3	3	41	0	5
Connecticut College	18	0	0	1	0	15	2	0
Quinnipiac College	16	0	0	0	0	16	0	0
Rensselaer at Hartford	391	5	1	58	6	206	115	0
Southern Connecticut State University	327	19	0	5	9	278	12	4
St. Joseph College	47	3	0	1	0	39	1	3
Trinity College	43	2	1	2	2	27	9	0
University of Bridgeport	361	2	0	21	4	85	3	246
University of Connecticut	1,521	37	5	67	47	896	5	464
University of Hartford	168	10	0	9	7	134	3	5
University of New Haven	707	25	0	19	4	482	11	166
Wesleyan University	112	2	0	1	0	48	2	59
Western Connecticut State University	18	0	0	0	1	9	8	0
Yale University	1,222	22	4	58	40	465	155	478
Maine	439	3	3	6	3	326	1	97
University of Maine	439	3	3	6	3	326	1	97
University of New England	0	0	0	0	0	0	0	0
Massachusetts	13,603	313	36	828	302	6,427	1,569	4,128
American International College	157	2	0	1	1	137	0	16
Anna Maria College	262	0	0	0	2	127	133	0
Assumption College	50	0	0	0	0	21	29	0
Boston College	416	14	0	19	12	234	7	130
Boston University	2,059	34	3	150	40	723	513	596
Brandeis University	455	8	0	27	8	207	35	170
Bridgewater State College	74	1	1	2	0	56	6	8
Clark University	281	5	0	5	4	116	31	120
Framingham State College	5	5	0	0	0	0	0	0
Harvard University	2,923	101	14	217	99	1,198	397	897
MGH Institute of Health Professions	0	0	0	0	0	0	0	0
Mass College of Pharmacy/Allied Health	25	0	0	1	0	0	0	14
Massachusetts Institute of Technology	1,842	43	3	149	44	905	78	620
Mount Holyoke College	3	0	0	0	0	3	0	0
Northeastern University	698	15	5	17	14	252	95	300
Salem State College	67	0	0	0	0	11	53	3
Smith College	4	0	0	0	0	4	0	0
Tufts University	637	9	0	41	18	436	5	128
University of Massachusetts	2,289	60	8	122	53	1,226	102	718
University of Massachusetts Dartmouth	154	0	1	5	1	86	6	55
University of Massachusetts Lowell	806	14	0	40	3	477	75	197
Western New England College	0	0	0	0	0	0	0	0
Williams College	21	0	0	2	0	0	0	19
Woods Hole Oceanographic Institution	96	1	1	7	0	66	0	21
Worcester Polytechnic Institute	257	1	0	13	3	132	3	105
Worcester State College	22	0	0	0	0	10	1	11
New Hampshire	1,052	10	2	34	24	619	106	257
Dartmouth College	318	4	2	8	17	182	38	67
Rivier College	134	0	0	16	0	44	13	61
University of New Hampshire	600	6	0	10	7	393	55	129
Rhode Island	1,358	43	3	80	22	790	47	373
Brown University	637	19	0	23	6	280	31	278
Rhode Island College	44	1	1	0	0	36	6	0
University of Rhode Island	677	23	2	57	16	474	10	95
Vermont	505	14	0	14	7	404	0	66
Goddard College	54	3	0	3	0	45	0	3

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Vermont, continued:								
Marlboro College	0	0	0	0	0	0	0	0
Middlebury College	0	0	0	0	0	0	0	0
University of Vermont	451	11	0	11	7	359	0	63
Middle Atlantic	54,352	3,330	121	4,272	2,037	27,376	4,291	12,925
New Jersey								
New Jersey	7,585	379	9	935	280	3,348	639	1,995
College of New Jersey, The	0	0	0	0	0	0	0	0
Drew University	0	0	0	0	0	0	0	0
Fairleigh Dickinson University	866	39	1	50	33	394	112	237
Kean University	303	48	0	39	23	175	17	1
Monmouth University	103	1	0	16	1	19	8	58
Montclair State University	398	22	2	52	22	226	52	22
New Jersey Institute of Technology	1,032	37	2	393	39	159	100	302
Princeton University	922	26	1	43	29	437	15	371
Rutgers the State Univ of New Jersey	2,715	125	1	176	74	1,368	182	789
Seton Hall University	531	46	1	38	24	244	139	39
Stevens Institute of Technology	412	15	1	97	12	177	13	97
Univ of Med and Dentistry of New Jersey	239	12	0	27	16	106	1	77
William Paterson U of NJ	64	8	0	4	7	43	0	2
New York								
New York	33,090	2,379	78	2,450	1,536	15,605	3,143	7,899
Adelphi University	296	18	0	13	16	175	59	15
Albany Medical College	76	5	0	11	0	41	0	19
Alfred University	77	1	0	1	1	74	0	0
CUNY Baruch College	573	102	1	120	72	136	92	50
CUNY Brooklyn College	658	155	1	104	37	150	115	96
CUNY City College	727	132	0	128	103	142	27	195
CUNY College of Staten Island	60	0	4	23	0	30	2	1
CUNY Graduate Center	1,634	70	2	49	73	1,019	44	377
CUNY Herbert H. Lehman College	56	5	0	13	3	6	15	14
CUNY Hunter College	262	42	0	24	37	112	28	19
CUNY John Jay College of Crim Justice	1,107	224	1	52	141	628	61	0
CUNY Queens College	670	66	1	181	45	208	0	169
Clarkson University	51	1	0	0	0	21	0	29
College of New Rochelle	143	18	0	0	5	35	84	1
College of St Rose	142	8	0	1	1	108	23	1
Columbia Univ in the City of New York	1,728	42	1	146	35	769	82	653
Cooper Union	0	0	0	0	0	0	0	0
Cornell University	2,680	84	9	170	87	1,276	0	1,074
Fordham University	424	18	1	14	28	178	115	70
Hofstra University	357	6	0	6	5	145	194	1
Iona College	133	7	0	6	4	33	83	0
Ithaca College	0	0	0	0	0	0	0	0
Long Island University	1,279	294	5	94	99	530	184	73
Manhattan College	10	0	0	0	0	6	1	3
Marist College	246	9	1	8	3	172	16	37
Mt. Sinai School of Medicine	190	11	0	32	7	88	0	52
New School University	999	95	3	34	70	422	105	270
New York Institute of Technology	479	32	1	53	11	104	76	202
New York Medical College	167	11	0	17	2	70	27	40
New York University	2,939	167	2	280	124	1,282	294	790
Niagara University	25	2	0	1	0	22	0	0
Pace University	605	55	1	84	31	198	147	89
Polytechnic University	494	22	0	74	2	111	221	64
Pratt Institute	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	478	9	0	21	3	264	2	179
Rochester Institute of Technology	327	5	0	20	5	181	14	102
Russell Sage College	76	1	0	0	1	32	42	0
SUNY Upstate Medical University	77	1	1	12	1	46	0	16
SUNY College at Brockport	310	2	0	2	1	296	9	0
SUNY College at Buffalo	15	2	2	0	0	4	0	7
SUNY College at Cortland	0	0	0	0	0	0	0	0
SUNY College at Fredonia	36	0	0	0	0	36	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
New York, continued:								
SUNY College at Geneseo	4	0	0	0	0	4	0	0
SUNY College at Oneonta	2	0	0	0	0	2	0	0
SUNY College at Oswego	135	4	0	1	4	125	0	1
SUNY College at Plattsburgh	13	0	0	0	0	13	0	0
SUNY College at Potsdam	1	0	0	0	0	1	0	0
SUNY College of Env Science and Forestry	330	6	0	1	4	250	0	69
SUNY College of Optometry	0	0	0	0	0	0	0	0
SUNY Health Science Center at Brooklyn	63	4	0	10	1	13	0	35
SUNY Inst of Technology at Utica-Rome	56	1	0	5	1	42	2	5
SUNY at Albany	2,098	112	8	23	74	1,151	329	401
SUNY at Binghamton	857	32	6	26	40	368	102	283
SUNY at Buffalo	1,762	79	10	103	35	920	3	612
SUNY at New Paltz	122	1	0	11	1	61	6	42
SUNY at Stony Brook	1,704	45	2	107	45	772	15	718
Saint John's University	528	47	0	31	41	290	46	73
Sarah Lawrence College	57	1	0	5	0	43	2	6
St. Bonaventure University	7	0	0	1	0	3	2	1
Syracuse University	996	38	7	35	24	406	247	239
Teachers College, Columbia University	2,106	261	6	197	137	1,068	218	219
The Rockefeller University	109	4	0	18	8	41	1	37
Union College	12	0	0	2	0	10	0	0
University of Rochester	842	14	2	30	13	450	5	328
Vassar College	0	0	0	0	0	0	0	0
Wagner College	15	0	0	0	1	14	0	0
Yeshiva University	665	28	0	50	54	408	3	122
Pennsylvania	13,677	572	34	887	221	8,423	509	3,031
Bloomsburg University of Pennsylvania	13	0	0	0	0	13	0	0
Bryn Mawr College	95	0	2	2	0	78	1	12
Bucknell University	24	0	0	0	0	21	0	3
California University of Pennsylvania	149	5	0	0	0	135	0	9
Carnegie Mellon University	1,391	61	3	116	21	638	105	447
Clarion University of Pennsylvania	39	1	0	0	0	38	0	0
Drexel University	850	40	1	41	11	519	94	144
Duquesne University	327	4	0	1	2	258	11	51
East Stroudsburg Univ of Pennsylvania	88	4	0	3	1	78	0	2
Edinboro University of Pennsylvania	112	5	0	0	0	102	0	5
Gannon University	96	6	0	0	0	86	0	4
Indiana University of Pennsylvania	374	18	0	9	4	307	1	35
Kutztown University of Pennsylvania	128	2	0	2	2	111	0	11
Lehigh University	409	8	0	29	5	192	149	26
MCP Hahnemann University	462	33	2	53	15	328	6	25
Mansfield University of Pennsylvania	9	0	0	0	0	9	0	0
Marywood University	202	3	1	2	0	186	10	0
Medical College of Pennsylvania, The	0	0	0	0	0	0	0	0
Millersville University of Pennsylvania	118	5	0	2	2	109	0	0
Pennsylvania State University	2,457	81	9	78	54	1,434	22	779
Philadelphia Col of Osteopathic Med	196	20	1	11	4	160	0	0
Philadelphia Coll of Pharmacy and Sci	34	0	0	1	0	17	0	16
Shippensburg University of Pennsylvania	267	20	1	8	1	229	0	8
Slippery Rock University of Pennsylvania	179	1	0	1	1	176	0	0
St Joseph's University	239	23	1	66	0	149	0	0
Swarthmore College	0	0	0	0	0	0	0	0
Temple University	863	68	8	125	26	479	7	150
Thomas Jefferson University	289	21	1	23	7	203	8	26
University of Pennsylvania	1,656	52	0	138	28	858	45	535
University of Pittsburgh	1,954	82	3	129	29	1,091	18	602
University of Scranton	109	1	0	2	3	72	7	24
Villanova University	327	3	1	16	3	162	25	117
West Chester University of Pennsylvania	217	5	0	29	2	181	0	0
Widener University, All Campuses	0	0	0	0	0	0	0	0
Wilkes University	4	0	0	0	0	4	0	0
East North Central	49,619	2,741	141	2,540	1,184	28,916	1,134	12,963
Illinois	18,068	1,424	36	1,363	511	9,855	504	4,375
Bradley University	120	2	0	12	0	14	24	68

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Illinois, continued:								
Chicago School of Prof Psych	205	18	0	11	5	154	2	15
Chicago State University	258	212	0	4	12	26	2	2
DePaul University	2,132	227	2	403	97	1,169	65	169
Eastern Illinois University	138	4	0	1	1	109	12	11
Finch U of Hlth Sci/The Chicago Med Sch	237	5	0	57	10	145	3	17
Governors State University	449	132	2	10	21	240	24	20
Illinois Institute of Technology	1,294	121	0	171	29	491	28	454
Illinois State University	500	24	2	11	5	381	0	77
Loyola University of Chicago	818	50	2	48	24	464	39	191
Midwestern University	0	0	0	0	0	0	0	0
Northeastern Illinois University	333	12	0	68	20	211	6	16
Northern Illinois University	862	30	1	44	13	491	99	184
Northwestern University	913	39	5	53	17	478	24	297
Roosevelt University	517	133	0	31	18	263	26	46
Rush University	94	4	0	6	2	63	0	19
Southern Illinois Univ at Carbondale	1,100	52	4	21	24	757	2	240
Southern Illinois Univ at Edwardsville	498	44	8	11	3	340	0	92
Univ of Illinois at Urbana-Champaign	2,930	67	2	150	52	1,391	97	1,171
University of Chicago	1,984	60	3	149	58	1,090	4	620
University of Illinois at Chicago	1,378	76	1	88	62	646	34	471
University of Illinois at Springfield	919	101	2	6	32	689	0	89
Western Illinois University	389	11	2	8	6	243	13	106
Indiana	6,032	163	23	197	140	3,564	94	1,851
Ball State University	482	0	0	2	0	327	0	153
Butler University	0	0	0	0	0	0	0	0
Indiana State University	320	19	1	2	14	194	14	76
Indiana University	2,596	79	10	98	48	1,761	39	561
Indiana Wesleyan University	0	0	0	0	0	0	0	0
Purdue University	1,997	58	8	83	56	934	24	834
Rose-Hulman Institute of Technology	7	0	0	0	0	3	0	4
University of Evansville	0	0	0	0	0	0	0	0
University of Notre Dame	552	5	2	11	21	291	4	218
University of Saint Francis	27	1	0	1	0	18	6	1
Valparaiso University	51	1	2	0	1	36	7	4
Michigan	8,991	573	33	401	206	4,911	201	2,666
Andrews University	101	12	1	1	4	36	0	47
Central Michigan University	391	10	2	22	3	250	2	102
Eastern Michigan University	607	23	0	46	4	262	24	248
Grand Valley State University	214	9	2	18	3	168	2	12
Michigan State University	2,318	93	11	69	52	1,229	21	843
Michigan Technological University	238	3	0	2	3	121	4	105
Northern Michigan University	144	2	3	5	2	131	1	0
Oakland University	125	7	0	1	1	98	0	18
University of Detroit Mercy	273	40	2	14	1	150	11	55
University of Michigan	2,381	176	9	139	95	1,372	42	548
Wayne State University	1,139	108	3	69	22	438	94	405
Western Michigan University	1,060	90	0	15	16	656	0	283
Ohio	11,304	480	30	440	178	7,173	185	2,818
Air Force Institute of Technology	195	0	0	3	0	82	0	110
Antioch University	1,099	35	8	24	33	950	42	7
Bowling Green State University	489	24	2	8	3	298	1	153
Case Western Reserve University	771	22	1	47	11	443	8	239
Cleveland State University	507	47	0	16	11	299	27	107
John Carroll University	69	1	0	1	0	63	0	4
Kent State University	764	27	2	16	22	426	33	238
Medical College of Ohio	94	0	0	35	1	54	3	1
Miami University (OH)	475	22	2	18	5	330	4	94
Ohio State University	2,654	90	4	199	44	1,409	16	892
Ohio University	630	11	2	5	3	357	0	252

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Ohio, continued:								
Union Institute, The	419	42	5	6	13	310	31	12
University of Akron	910	8	0	17	4	684	5	192
University of Cincinnati	894	48	0	21	6	561	3	255
University of Dayton	167	8	0	5	0	122	0	32
University of Toledo	403	31	0	2	5	252	5	108
Wright State University	532	43	3	14	11	337	7	117
Xavier University	116	9	1	2	4	100	0	0
Youngstown State University	116	12	0	1	2	96	0	5
Wisconsin	5,224	101	19	139	149	3,413	150	1,253
Marquette University	406	13	0	8	9	234	4	138
Medical College of Wisconsin	158	0	0	2	10	41	53	52
Milwaukee School of Engineering	0	0	0	0	0	0	0	0
University of Wisconsin-Eau Claire	16	0	0	1	0	15	0	0
University of Wisconsin-Green Bay	38	0	0	2	0	31	0	5
University of Wisconsin-La Crosse	66	0	0	1	1	63	0	1
University of Wisconsin-Madison	3,294	34	13	88	96	2,093	84	886
University of Wisconsin-Milwaukee	884	47	3	32	29	611	4	158
University of Wisconsin-Oshkosh	165	4	2	4	1	151	2	1
University of Wisconsin-Platteville	6	0	0	0	0	6	0	0
University of Wisconsin-River Falls	33	0	0	0	0	33	0	0
University of Wisconsin-Stevens Point	56	0	0	0	0	55	0	1
University of Wisconsin-Stout	56	2	0	1	2	37	3	11
University of Wisconsin-Whitewater	46	1	1	0	1	43	0	0
West North Central	21,418	710	109	611	406	12,676	1,862	5,044
Iowa	3,339	86	10	52	63	1,820	90	1,218
Des Moines Univ-Osteopathic Med Ctr	0	0	0	0	0	0	0	0
Drake University	229	23	0	4	8	191	1	2
Iowa State University	1,769	30	4	24	24	870	86	731
Loras College	15	0	0	0	0	15	0	0
Maharishi University of Management	81	0	0	0	1	11	0	69
Marycrest International Univ	23	0	0	0	0	12	0	11
University of Iowa	1,088	23	6	23	30	616	3	387
University of Northern Iowa	134	10	0	1	0	105	0	18
Kansas	4,374	133	35	128	94	2,807	247	930
Emporia State University	192	4	0	2	2	159	10	15
Fort Hays State University	59	1	0	2	2	54	0	0
Kansas State University	1,442	36	6	70	20	854	2	454
Pittsburg State University	162	1	1	1	1	132	12	14
University of Kansas	2,024	65	27	42	61	1,327	223	279
Washburn University of Topeka	15	1	0	1	0	13	0	0
Wichita State University	480	25	1	10	8	268	0	168
Minnesota	5,684	224	26	177	116	2,955	1,216	970
Bemidji State University	19	0	0	1	0	15	0	3
Mayo Graduate School	130	2	1	6	10	80	9	22
Minnesota State University at Mankato	260	0	1	9	1	155	64	30
Moorhead State University	50	0	0	0	0	49	0	1
Saint Mary's University of Minnesota	997	0	0	0	0	0	997	0
St. Cloud State University	148	0	0	33	10	105	0	0
University of Minnesota	3,411	85	15	116	69	2,183	39	904
Walden University	669	137	9	12	26	368	107	10
Missouri	4,521	200	12	183	76	2,940	82	1,028
Central Missouri State University	237	15	0	3	3	187	4	25
Forest Institute of Professional Psych	246	5	1	7	5	199	29	0
Kirkville College of Osteopathic Med	0	0	0	0	0	0	0	0
Lincoln University	35	16	0	0	0	13	0	6

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
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Missouri, continued:								
Northwest Missouri State University	35	0	0	1	0	33	0	1
Saint Louis University	411	33	1	17	8	303	4	45
Southeast Missouri State University	47	2	0	1	0	41	0	3
Southwest Missouri State University	246	4	0	6	0	224	0	12
Truman State University	4	0	0	0	0	1	1	2
University of Missouri-Columbia	1,233	60	3	41	15	766	20	328
University of Missouri-Kansas City	422	17	1	13	12	214	12	153
University of Missouri-Rolla	220	3	0	5	3	98	3	108
University of Missouri-St. Louis	420	22	2	19	14	282	3	78
Washington University	965	23	4	70	16	579	6	267
Nebraska	2,007	56	6	33	42	1,257	28	585
Creighton University	108	0	0	3	3	59	0	43
University of Nebraska Medical Center	78	2	0	2	6	53	0	15
University of Nebraska at Kearney	42	0	0	0	0	40	0	2
University of Nebraska at Lincoln	1,199	18	5	10	25	710	7	424
University of Nebraska at Omaha	580	36	1	18	8	395	21	101
North Dakota	905	5	15	22	10	487	180	186
North Dakota State University	477	2	3	12	9	275	26	150
University of North Dakota	428	3	12	10	1	212	154	36
South Dakota	588	6	5	16	5	410	19	127
South Dakota School of Mines and Tech	90	0	0	1	0	62	3	24
South Dakota State University	295	4	4	5	1	217	1	63
University of South Dakota	203	2	1	10	4	131	15	40
South Atlantic	49,934	4,582	134	2,572	1,623	30,711	773	9,539
Delaware	1,051	50	3	45	23	630	10	290
Delaware State University	28	7	0	2	0	12	0	7
University of Delaware	1,023	43	3	43	23	618	10	283
District of Columbia	5,776	822	11	379	190	3,006	193	1,175
American University	1,857	245	3	126	88	998	71	326
Catholic University of America	348	13	1	14	16	224	16	64
Gallaudet University	0	0	0	0	0	0	0	0
George Washington University	2,401	120	3	160	67	1,474	102	475
Georgetown University	602	8	2	67	16	290	0	219
Howard University	558	428	2	10	3	20	4	91
University of the District of Columbia	10	8	0	2	0	0	0	0
Florida	10,510	771	28	423	848	6,550	75	1,815
Embry-Riddle Aeronautical University	84	5	0	4	4	41	1	29
Florida A&M University	158	118	0	11	3	9	17	0
Florida Atlantic University	660	47	2	33	45	436	0	97
Florida Institute of Technology	509	14	1	12	10	303	8	161
Florida International University	778	81	1	31	198	314	0	153
Florida State University	1,107	64	2	81	33	716	0	211
Jacksonville University	0	0	0	0	0	0	0	0
Nova Southeastern University	1,838	176	4	60	194	1,285	29	90
University of Central Florida	948	64	3	32	56	667	1	125
University of Florida	2,321	86	6	84	126	1,392	8	619
University of Miami	736	40	4	26	105	344	3	214
University of South Florida	1,041	54	1	35	63	780	7	101
University of West Florida	330	22	4	14	11	263	1	15
Georgia	5,596	738	8	261	106	3,289	61	1,133
Augusta State University	31	3	0	3	0	25	0	0
Clark Atlanta University	256	209	0	7	7	6	5	22
Emory University	680	34	3	33	14	450	3	143

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Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

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Georgia, continued:								
Fort Valley State University	0	0	0	0	0	0	0	0
Georgia College and State University	192	35	1	2	4	128	2	20
Georgia Institute of Technology	943	66	0	48	23	526	5	275
Georgia Southern University	178	17	1	2	2	141	0	15
Georgia State University	1,056	226	1	93	27	545	7	157
Institute of Paper Science & Technology	0	0	0	0	0	0	0	0
Medical College of Georgia	109	5	0	3	1	59	2	39
Mercer University	65	9	0	0	1	32	22	1
Morehouse School of Medicine	15	11	0	1	0	1	0	2
State University of West Georgia	144	22	1	3	3	106	1	8
University of Georgia	1,737	52	0	65	20	1,137	12	451
Valdosta State University	190	49	1	1	4	133	2	0
Maryland	6,986	598	19	399	137	3,954	205	1,674
Coppin State College	73	43	0	0	0	30	0	0
Frostburg State University	85	0	0	0	2	78	0	5
Hood College	400	16	1	26	5	252	66	34
Johns Hopkins University	1,484	40	2	163	42	811	6	420
Loyola College	485	37	0	8	5	383	19	33
Morgan State University	55	42	0	1	0	2	0	10
Towson State University	482	40	4	34	6	289	3	106
Uniformed Serv Univ of the Hlth Sciences	61	6	1	5	1	44	4	0
Univ of Maryland - Baltimore County	697	64	0	40	6	411	2	174
University of Baltimore	380	146	3	7	4	188	15	17
University of Maryland Eastern Shore	97	17	0	3	1	31	0	45
University of Maryland at College Park	2,329	131	8	80	58	1,220	64	768
University of Maryland, Baltimore	281	14	0	32	7	157	9	62
Washington College	77	2	0	0	0	58	17	0
North Carolina	7,814	811	26	369	96	5,316	75	1,121
Appalachian State University	211	5	0	2	4	194	0	6
Duke University	1,076	34	1	102	15	711	14	199
East Carolina University	362	20	4	18	2	294	15	9
North Carolina A&T State University	210	133	0	25	1	26	8	17
North Carolina Central University	351	295	2	13	2	38	0	1
North Carolina State University	2,104	106	7	75	28	1,453	0	435
Univ of North Carolina at Chapel Hill	2,087	112	9	91	36	1,519	5	315
Univ of North Carolina at Charlotte	503	45	0	19	2	346	0	91
Univ of North Carolina at Greensboro	365	47	1	11	2	278	2	24
University of North Carolina/Wilmington	161	2	1	3	0	148	0	7
Wake Forest University	257	9	0	10	4	190	31	13
Western Carolina University	127	3	1	0	0	119	0	4
South Carolina	2,289	96	4	42	29	1,522	31	565
Clemson University	966	20	2	14	5	599	24	302
College of Charleston	173	3	2	1	1	156	2	8
Furman University	7	0	0	0	0	7	0	0
Medical University of South Carolina	238	12	0	11	2	183	3	27
University of South Carolina	819	52	0	15	20	502	2	228
Winthrop University	86	9	0	1	1	75	0	0
Virginia	8,401	667	30	632	181	5,343	85	1,463
College of William and Mary	380	12	0	9	13	289	0	57
Eastern Virginia Medical School	127	19	0	4	0	84	0	20
George Mason University	2,323	106	7	294	74	1,322	0	520
Hampton University	129	78	0	9	2	3	0	37
Hollins University	0	0	0	0	0	0	0	0
Institute of Textile Technology	0	0	0	0	0	0	0	0
James Madison University	254	20	4	4	5	197	0	24
Old Dominion University	884	111	5	19	12	495	17	225
Radford University	188	12	0	3	5	151	0	17

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

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Virginia, continued:								
University of Richmond	12	0	0	0	0	12	0	0
University of Virginia	1,033	35	3	57	19	764	6	149
Virginia Commonwealth University	1,376	135	7	139	21	943	46	85
Virginia Polytechnic Inst and State Univ	1,628	84	4	92	30	1,073	16	329
Virginia State University	67	55	0	2	0	10	0	0
West Virginia	1,511	29	5	22	13	1,101	38	303
Marshall University	583	14	2	6	8	496	38	19
University of Charleston	0	0	0	0	0	0	0	0
West Virginia Graduate College	0	0	0	0	0	0	0	0
West Virginia University	928	15	3	16	5	605	0	284
West Virginia University Institute of Te	0	0	0	0	0	0	0	0
East South Central	12,611	1,344	39	390	141	8,200	112	2,385
Alabama	3,583	454	13	115	41	2,158	24	778
Alabama A&M University	69	51	0	1	0	1	0	16
Alabama State University	23	20	0	0	0	3	0	0
Auburn University	1,031	104	7	28	12	664	10	206
Jacksonville State University	181	54	1	4	2	119	1	0
Troy State University in Montgomery	43	9	0	1	3	29	1	0
Tuskegee University	58	44	0	2	0	0	5	7
University of Alabama at Birmingham, The	892	82	2	45	8	533	7	215
University of Alabama in Huntsville, The	325	23	0	23	4	172	0	103
University of Alabama, The	686	49	1	6	8	466	0	156
University of Montevallo	0	0	0	0	0	0	0	0
University of South Alabama	275	18	2	5	4	171	0	75
Kentucky	2,909	115	8	66	51	2,039	59	571
Eastern Kentucky University	260	10	1	10	1	225	11	2
Morehead State University	74	0	0	1	0	71	0	2
Murray State University	173	7	0	2	3	122	0	39
Spalding University	143	6	1	1	3	125	0	7
University of Kentucky	1,396	55	3	20	17	907	47	347
University of Louisville	670	29	1	30	26	437	1	146
Western Kentucky University	193	8	2	2	1	152	0	28
Mississippi	2,018	335	6	47	20	1,154	9	447
Jackson State University	287	193	1	13	1	30	0	49
Mississippi State University	809	71	0	7	7	491	1	232
Mississippi University for Women	0	0	0	0	0	0	0	0
University of Mississippi	485	51	3	6	1	273	5	146
University of Southern Mississippi	437	20	2	21	11	360	3	20
Tennessee	4,101	440	12	162	29	2,849	20	589
Austin Peay State University	71	10	0	1	1	57	2	0
East Tennessee State University	287	10	2	45	1	227	2	0
Fisk University	43	36	0	0	0	4	0	3
Meharry Medical College	125	95	0	7	0	7	6	10
Middle Tennessee State University	271	4	5	33	2	224	3	0
Tennessee State University	277	151	0	5	3	107	3	8
Tennessee Technological University	152	3	0	0	1	138	0	10
University of Memphis, The	520	47	0	9	2	374	1	87
University of Tennessee at Chattanooga	182	22	0	2	2	141	0	15
University of Tennessee at Knoxville	1,270	27	4	23	11	1,005	0	200
University of Tennessee, Memphis	146	7	0	2	0	68	0	69
Vanderbilt University	757	28	1	35	6	497	3	187
West South Central	28,476	1,994	196	1,531	1,732	15,515	383	7,125
Arkansas	1,379	116	9	92	13	952	18	179
Arkansas State University	158	10	0	2	2	129	0	15
University of Arkansas - Med Sci Campus	136	8	1	14	0	89	0	24
University of Arkansas Main	705	30	5	68	8	467	17	110

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Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Arkansas, continued:								
University of Arkansas at Little Rock	197	43	0	7	3	113	1	30
University of Central Arkansas	183	25	3	1	0	154	0	0
Louisiana	4,292	744	6	109	72	2,271	102	988
Grambling State University	9	9	0	0	0	0	0	0
Louisiana State University	2,273	208	5	66	54	1,292	57	591
Louisiana Tech University	95	5	0	5	0	46	0	39
Loyola University New Orleans	0	0	0	0	0	0	0	0
McNeese State University	118	10	0	0	0	102	1	5
Nicholls State University	43	6	0	0	0	37	0	0
Northwestern State University	37	2	0	1	3	29	2	0
Southeastern Louisiana University	61	5	0	0	1	54	1	0
Southern University A & M, All Campuses	589	438	0	5	0	126	13	7
Tulane University	591	30	0	27	13	359	25	137
Univ of Louisiana at Lafayette	338	6	1	4	0	139	1	187
Univ of Louisiana at Monroe, The	138	25	0	1	1	87	2	22
Xavier University of Louisiana	0	0	0	0	0	0	0	0
Oklahoma	2,488	77	104	98	42	1,494	14	659
East Central University	6	0	0	0	0	4	0	2
Northeastern State University	124	5	23	1	2	92	0	1
Oklahoma State University	1,069	36	38	27	18	565	0	385
Oral Roberts University	0	0	0	0	0	0	0	0
Southwestern Oklahoma State University	6	0	0	0	0	6	0	0
University of Oklahoma	1,093	31	40	63	16	708	7	228
University of Tulsa	190	5	3	7	6	119	7	43
Texas	20,317	1,057	77	1,232	1,605	10,798	249	5,299
Abilene Christian University	103	3	1	0	3	83	3	10
Angelo State University	100	2	0	2	13	82	0	1
Baylor College of Dentistry	16	0	0	0	2	9	0	5
Baylor College of Medicine	333	10	0	19	13	172	0	119
Baylor University	268	1	2	11	17	179	11	47
Lamar University	193	7	0	2	6	67	2	109
Midwestern State University	139	0	1	25	4	79	30	0
Prairie View A&M University	130	114	0	0	2	11	0	3
Rice University	506	14	2	14	15	270	2	189
Sam Houston State University	367	18	1	13	9	300	0	26
Southern Methodist University	334	8	0	16	10	173	0	127
Southwest Texas State University	730	27	7	25	94	487	4	86
St. Mary's University	176	12	1	3	57	76	6	21
Stephen F. Austin State University	271	11	5	6	9	221	0	19
Sul Ross State University	100	1	1	1	21	73	0	3
Tarleton State University	80	3	0	1	1	75	0	0
Tarleton University System Center	264	65	4	17	17	161	0	0
Texas A&M U Sys Health Science Center	56	2	4	0	1	36	0	13
Texas A&M University	2,895	47	1	88	125	1,667	21	946
Texas A&M University-Commerce	339	9	1	26	4	146	10	143
Texas A&M University-Corpus Christi	350	7	4	9	97	202	0	31
Texas A&M University-Kingsville	236	3	0	5	94	86	0	48
Texas Christian University	113	1	1	9	6	72	0	24
Texas Southern University	533	328	0	14	9	47	5	130
Texas Tech University	775	6	2	14	32	514	13	194
Texas Woman's University	467	24	4	28	37	355	0	19
Trinity University	0	0	0	0	0	0	0	0
U of North TX Hlth Sci Ctr at Ft Worth	0	0	0	0	0	0	0	0
Univ of Texas Houston Hlth Sci Ctr	558	18	3	51	33	289	0	164
Univ of Texas M.D. Anderson Cancer Ctr	0	0	0	0	0	0	0	0
Univ of Texas Med Branch at Galveston	150	2	1	12	13	73	1	48
Univ of Texas SW Medical Ctr at Dallas	340	4	0	21	25	217	3	70
Univ of Texas at San Antonio Hlth Sci Ct	186	3	0	8	14	106	2	53
University of Houston	1,292	51	6	378	39	455	24	339

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Texas, continued:								
University of Houston - Victoria	38	1	0	0	5	32	0	0
University of Houston, Clear Lake	977	97	2	102	72	457	0	247
University of North Texas	1,549	51	10	42	80	898	91	377
University of Texas at Arlington	1,007	34	7	53	29	471	0	413
University of Texas at Austin	2,005	31	1	43	107	1,160	17	646
University of Texas at Dallas	942	23	0	100	18	359	0	442
University of Texas at El Paso	446	4	0	15	164	137	0	126
University of Texas at San Antonio	301	3	1	44	100	128	0	25
University of Texas at Tyler	108	2	1	7	2	94	0	2
University of Texas of the Permian Basin	56	0	0	1	6	49	0	0
University of Texas-Pan American	219	3	0	5	150	50	0	11
University of the Incarnate Word	84	3	0	2	31	41	4	3
West Texas A&M University	185	4	3	0	19	139	0	20
Mountain	19,574	258	188	734	801	13,774	566	3,253
Arizona	4,536	84	60	152	235	2,983	77	945
Arizona State University	1,828	45	23	59	95	1,139	36	431
Northern Arizona University	527	12	24	7	32	419	3	30
University of Arizona	2,181	27	13	86	108	1,425	38	484
Colorado	6,132	101	32	267	218	4,338	262	914
Colorado School of Mines	418	3	1	7	7	268	8	124
Colorado State University	1,404	5	6	30	32	981	92	258
National Technological University	83	1	0	18	0	54	8	2
University of Colorado	3,222	68	21	166	144	2,314	142	367
University of Denver	797	20	2	43	24	546	6	156
University of Northern Colorado	208	4	2	3	11	175	6	7
Idaho	1,151	2	12	13	17	876	33	198
Idaho State University	225	1	1	1	3	204	0	15
University of Idaho	926	1	11	12	14	672	33	183
Montana	1,047	3	25	14	7	897	24	77
Montana State University-Bozeman	450	2	2	8	2	378	9	49
Montana Tech of the Univ of Montana	20	0	1	0	0	19	0	0
University of Montana, The	577	1	22	6	5	500	15	28
Nevada	1,050	15	5	39	31	756	49	155
University of Nevada Las Vegas	282	10	2	10	5	220	3	32
University of Nevada, Reno	768	5	3	29	26	536	46	123
New Mexico	2,256	33	28	38	253	1,434	49	421
Eastern New Mexico University	70	2	1	0	7	57	0	3
New Mexico Highlands University	59	1	1	1	10	34	0	12
New Mexico Institute of Mining and Tech	179	0	1	1	17	114	0	46
New Mexico State University	666	8	6	5	86	384	2	175
University of New Mexico	1,282	22	19	31	133	845	47	185
Utah	2,771	20	19	185	33	1,968	69	477
Brigham Young University	802	5	4	32	11	626	11	113
University of Utah	1,089	10	6	144	13	708	55	153
Utah State University	880	5	9	9	9	634	3	211
Wyoming	631	0	7	26	7	522	3	66
University of Wyoming	631	0	7	26	7	522	3	66
Pacific	49,450	1,903	331	5,476	3,079	26,268	3,634	8,759
Alaska	560	8	11	11	5	424	7	94
University of Alaska Anchorage	102	4	2	1	3	92	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Alaska, continued:								
University of Alaska Fairbanks	435	3	7	10	2	312	7	94
University of Alaska Southeast	23	1	2	0	0	20	0	0
California	40,263	1,781	250	4,792	2,861	20,557	3,032	6,990
Azusa Pacific University	334	21	0	66	30	157	9	51
Biola University	46	0	0	6	1	33	0	6
CA School Prof Psychology-Alameda	246	16	3	32	15	140	25	15
Calif Poly State Univ, San Luis Obispo	230	3	0	0	1	182	1	43
Calif Sch of Prof Psych - Fresno	374	13	10	23	23	248	53	4
Calif Sch of Prof Psych - Los Angeles	665	63	10	65	64	391	61	11
Calif Sch of Prof Psych - San Diego	573	12	8	25	26	455	38	9
Calif State Univ, Dominguez Hills	404	154	3	31	76	100	33	7
Calif State Univ, Fullerton	821	25	6	162	93	354	74	107
Calif State Univ, Los Angeles	650	59	1	108	243	130	62	47
Calif State University at Sacramento	1,144	44	0	95	49	724	111	121
Calif State University, Stanislaus	93	3	0	5	10	54	21	0
California Institute of Integral Studies	343	4	1	4	8	309	7	10
California Institute of Technology	602	8	1	50	19	276	1	247
California State Poly University, Pomona	394	16	3	67	51	150	56	51
California State Univ, Bakersfield	57	1	0	8	5	35	8	0
California State Univ, San Bernadino	381	34	4	10	58	174	45	56
California State University, Chico	315	6	4	18	20	174	30	63
California State University, Fresno	499	11	2	48	103	179	57	99
California State University, Hayward	1,001	148	13	348	57	309	126	0
California State University, Long Beach	921	49	8	176	120	330	88	150
California State University, Northridge	486	18	4	64	37	216	86	61
Chapman University	366	14	0	10	20	283	33	6
Charles R. Drew Univ of Medicine & Sci	0	0	0	0	0	0	0	0
Claremont Graduate School	625	30	3	61	61	274	58	138
Dominican College of San Rafael	102	4	0	2	5	65	9	17
Fielding Institute, The	964	49	3	32	28	835	0	17
Fuller Theological Seminary	334	13	1	48	16	203	13	40
Golden Gate University	318	16	0	52	12	129	7	102
Harvey Mudd College	0	0	0	0	0	0	0	0
Humboldt State University	257	4	9	6	12	185	37	4
John F Kennedy University	561	24	4	30	32	440	31	0
Loma Linda University	458	49	1	53	64	179	2	110
Loyola Marymount University	31	2	0	8	2	14	5	0
National University	1,543	173	9	159	160	832	67	143
Northrop University	0	0	0	0	0	0	0	0
Occidental College	1	0	0	0	0	1	0	0
Pacific Graduate School of Psychology	296	11	4	18	23	199	24	17
Pacific States University	14	0	0	0	0	0	0	14
Pepperdine University	682	53	5	47	67	339	156	15
RAND Graduate School of Policy Studies	57	1	0	2	2	36	0	16
San Diego State University	1,271	50	13	159	132	631	154	132
San Francisco State University	1,000	61	11	151	50	440	195	92
San Jose State University	709	20	2	187	41	265	97	97
Santa Clara University	455	3	1	71	10	138	75	157
Sonoma State University	49	2	0	1	3	36	7	0
Stanford University	2,094	43	12	272	63	959	43	702
US International University	304	14	5	16	24	210	21	14
US Naval Postgraduate School	480	2	0	18	0	223	0	237
University of Calif, Berkeley	2,981	64	17	290	137	1,751	142	580
University of Calif, Davis	1,969	27	17	206	82	1,119	160	358
University of Calif, Riverside	745	9	3	73	44	354	60	202
University of Calif, San Diego	1,359	20	8	192	70	787	71	211
University of Calif, San Francisco	28	9	6	18	18	19	1	1
University of Calif, Santa Barbara	1,140	11	4	75	57	722	108	163
University of Calif, Santa Cruz	668	14	4	60	42	385	80	83
University of California, Irvine	1,041	7	3	147	56	492	109	227
University of California, Los Angeles	2,942	92	17	508	186	1,310	180	649
University of La Verne	320	55	3	30	48	144	14	26
University of Redlands	0	0	0	0	0	0	0	0

Table 32. Graduate science students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

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		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
California, continued:								
University of San Diego	133	1	0	7	10	101	13	1
University of San Francisco	115	4	0	17	6	32	13	43
University of Southern California	2,674	97	9	293	146	894	32	1,203
University of the Pacific	50	1	0	3	3	26	2	15
West Coast University	0	0	0	0	0	0	0	0
Wright Institute	292	24	0	16	20	211	21	0
Hawaii								
University of Hawaii at Manoa	1,292	6	1	254	30	528	87	386
Oregon								
Oregon Grad Inst of Science & Technology	149	0	0	5	1	31	55	57
Oregon Health Sciences University	137	1	0	15	2	85	30	4
Oregon State University	1,055	5	6	76	21	670	52	225
Pacific University	0	0	0	0	0	0	0	0
Portland State University	857	13	9	34	27	573	65	136
Southern Oregon State College	64	0	0	0	2	51	7	4
University of Oregon	648	7	9	23	17	445	30	117
University of Portland	0	0	0	0	0	0	0	0
Washington								
Central Washington University	120	1	7	2	4	99	5	2
Eastern Washington University	206	4	9	6	4	142	41	0
Gonzaga University	0	0	0	0	0	0	0	0
Pacific Lutheran University	34	2	1	0	1	21	7	2
Saint Martin's College	0	0	0	0	0	0	0	0
Seattle University	143	10	2	9	6	96	17	3
University of Washington	2,841	51	18	212	63	1,808	163	526
Walla Walla College	9	0	0	0	0	9	0	0
Washington State University	881	13	5	29	33	576	18	207
Western Washington University	191	1	3	8	2	153	18	6
Whitworth College	0	0	0	0	0	0	0	0
Outlying Areas								
Guam	87	0	0	59	4	16	3	5
University of Guam	87	0	0	59	4	16	3	5
Puerto Rico								
Caribbean Center for Advanced Studies	566	0	0	0	566	0	0	0
Ponce School of Medicine	17	0	0	0	16	1	0	0
Pontifical Cath Univ of Puerto Rico, The	17	0	0	0	17	0	0	0
Univ of Puerto Rico Mayaguez Campus	446	0	0	1	346	17	0	82
Univ of Puerto Rico Rio Piedras Campus	1,176	0	0	15	1,029	74	2	56
University of Puerto Rico Med Sci Campus	133	0	0	0	133	0	0	0

NOTES: Includes medical schools

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all institutions	101,468	2,966	242	8,154	2,919	42,014	3,756	41,417
New England	8,017	146	10	513	128	3,710	660	2,850
Connecticut	1,056	30	0	39	11	545	78	353
Central Connecticut State University	0	0	0	0	0	0	0	0
Connecticut College	0	0	0	0	0	0	0	0
Quinnipiac College	0	0	0	0	0	0	0	0
Rensselaer at Hartford	327	24	0	20	7	211	54	11
Southern Connecticut State University	0	0	0	0	0	0	0	0
St. Joseph College	0	0	0	0	0	0	0	0
Trinity College	0	0	0	0	0	0	0	0
University of Bridgeport	69	0	0	0	0	8	1	60
University of Connecticut	406	6	0	10	2	210	0	178
University of Hartford	57	0	0	2	1	22	12	20
University of New Haven	97	0	0	1	0	76	0	20
Wesleyan University	0	0	0	0	0	0	0	0
Western Connecticut State University	0	0	0	0	0	0	0	0
Yale University	100	0	0	6	1	18	11	64
Maine	133	2	2	0	2	76	1	50
University of Maine	133	2	2	0	2	76	1	50
University of New England	0	0	0	0	0	0	0	0
Massachusetts	6,183	101	7	425	91	2,739	570	2,250
American International College	0	0	0	0	0	0	0	0
Anna Maria College	0	0	0	0	0	0	0	0
Assumption College	0	0	0	0	0	0	0	0
Boston College	0	0	0	0	0	0	0	0
Boston University	360	6	0	13	2	77	92	170
Brandeis University	0	0	0	0	0	0	0	0
Bridgewater State College	0	0	0	0	0	0	0	0
Clark University	0	0	0	0	0	0	0	0
Framingham State College	0	0	0	0	0	0	0	0
Harvard University	164	4	0	17	0	68	8	67
MGH Institute of Health Professions	0	0	0	0	0	0	0	0
Mass College of Pharmacy/Allied Health	0	0	0	0	0	0	0	0
Massachusetts Institute of Technology	2,462	61	2	284	48	1,054	81	932
Mount Holyoke College	0	0	0	0	0	0	0	0
Northeastern University	873	8	0	15	7	218	289	336
Salem State College	0	0	0	0	0	0	0	0
Smith College	0	0	0	0	0	0	0	0
Tufts University	335	8	1	23	4	195	3	101
University of Massachusetts	490	2	2	8	15	151	25	287
University of Massachusetts Dartmouth	104	1	2	0	1	40	2	58
University of Massachusetts Lowell	751	7	0	39	1	476	69	159
Western New England College	61	0	0	4	0	56	1	0
Williams College	0	0	0	0	0	0	0	0
Woods Hole Oceanographic Institution	29	0	0	0	1	22	0	6
Worcester Polytechnic Institute	554	4	0	22	12	382	0	134
Worcester State College	0	0	0	0	0	0	0	0
New Hampshire	262	1	1	11	1	150	11	87
Dartmouth College	102	1	1	8	1	54	0	37
Rivier College	0	0	0	0	0	0	0	0
University of New Hampshire	160	0	0	3	0	96	11	50
Rhode Island	283	9	0	29	21	130	0	94
Brown University	85	3	0	1	0	30	0	51
Rhode Island College	0	0	0	0	0	0	0	0
University of Rhode Island	198	6	0	28	21	100	0	43
Vermont	100	3	0	9	2	70	0	16
Goddard College	0	0	0	0	0	0	0	0

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Vermont, continued:								
Marlboro College	16	2	0	7	0	6	0	1
Middlebury College	0	0	0	0	0	0	0	0
University of Vermont	84	1	0	2	2	64	0	15
Middle Atlantic	14,243	534	27	1,455	353	5,409	834	5,631
New Jersey								
New Jersey	2,994	138	7	578	120	976	292	883
College of New Jersey, The	0	0	0	0	0	0	0	0
Drew University	0	0	0	0	0	0	0	0
Fairleigh Dickinson University	35	0	0	1	1	8	1	24
Kean University	0	0	0	0	0	0	0	0
Monmouth University	110	5	0	18	3	41	22	21
Montclair State University	0	0	0	0	0	0	0	0
New Jersey Institute of Technology	911	42	5	319	56	244	245	0
Princeton University	401	3	0	29	5	139	0	225
Rutgers the State Univ of New Jersey	728	16	0	90	13	245	10	354
Seton Hall University	0	0	0	0	0	0	0	0
Stevens Institute of Technology	807	72	2	120	42	298	14	259
Univ of Med and Dentistry of New Jersey	2	0	0	1	0	1	0	0
William Paterson U of NJ	0	0	0	0	0	0	0	0
New York	6,718	278	13	619	160	2,441	375	2,832
Adelphi University	0	0	0	0	0	0	0	0
Albany Medical College	0	0	0	0	0	0	0	0
Alfred University	57	0	0	0	0	37	0	20
CUNY Baruch College	0	0	0	0	0	0	0	0
CUNY Brooklyn College	0	0	0	0	0	0	0	0
CUNY City College	170	31	3	22	17	31	14	52
CUNY College of Staten Island	0	0	0	0	0	0	0	0
CUNY Graduate Center	114	12	0	4	3	15	0	80
CUNY Herbert H. Lehman College	0	0	0	0	0	0	0	0
CUNY Hunter College	0	0	0	0	0	0	0	0
CUNY John Jay College of Crim Justice	0	0	0	0	0	0	0	0
CUNY Queens College	0	0	0	0	0	0	0	0
Clarkson University	146	4	4	0	1	44	0	93
College of New Rochelle	0	0	0	0	0	0	0	0
College of St Rose	0	0	0	0	0	0	0	0
Columbia Univ in the City of New York	605	5	0	99	11	184	2	304
Cooper Union	37	1	0	10	2	20	0	4
Cornell University	780	16	1	73	24	241	0	425
Fordham University	0	0	0	0	0	0	0	0
Hofstra University	0	0	0	0	0	0	0	0
Iona College	0	0	0	0	0	0	0	0
Ithaca College	0	0	0	0	0	0	0	0
Long Island University	0	0	0	0	0	0	0	0
Manhattan College	111	4	0	0	6	85	10	6
Marist College	0	0	0	0	0	0	0	0
Mt. Sinai School of Medicine	0	0	0	0	0	0	0	0
New School University	0	0	0	0	0	0	0	0
New York Institute of Technology	265	45	0	15	24	129	17	35
New York Medical College	0	0	0	0	0	0	0	0
New York University	0	0	0	0	0	0	0	0
Niagara University	0	0	0	0	0	0	0	0
Pace University	0	0	0	0	0	0	0	0
Polytechnic University	706	64	1	157	8	164	199	113
Pratt Institute	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	1,168	33	1	48	28	552	10	496
Rochester Institute of Technology	176	5	1	8	9	106	7	40
Russell Sage College	0	0	0	0	0	0	0	0
SUNY Upstate Medical University	0	0	0	0	0	0	0	0
SUNY College at Brockport	0	0	0	0	0	0	0	0
SUNY College at Buffalo	0	0	0	0	0	0	0	0
SUNY College at Cortland	0	0	0	0	0	0	0	0
SUNY College at Fredonia	0	0	0	0	0	0	0	0

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
New York, continued:								
SUNY College at Geneseo	0	0	0	0	0	0	0	0
SUNY College at Oneonta	0	0	0	0	0	0	0	0
SUNY College at Oswego	0	0	0	0	0	0	0	0
SUNY College at Plattsburgh	0	0	0	0	0	0	0	0
SUNY College at Potsdam	0	0	0	0	0	0	0	0
SUNY College of Env Science and Forestry	104	1	1	2	0	68	0	32
SUNY College of Optometry	0	0	0	0	0	0	0	0
SUNY Health Science Center at Brooklyn	0	0	0	0	0	0	0	0
SUNY Inst of Technology at Utica-Rome	0	0	0	0	0	0	0	0
SUNY at Albany	0	0	0	0	0	0	0	0
SUNY at Binghamton	256	12	1	15	3	84	35	106
SUNY at Buffalo	857	20	0	73	12	338	42	372
SUNY at New Paltz	5	0	0	1	0	1	0	3
SUNY at Stony Brook	318	11	0	28	5	111	3	160
Saint John's University	0	0	0	0	0	0	0	0
Sarah Lawrence College	0	0	0	0	0	0	0	0
St. Bonaventure University	0	0	0	0	0	0	0	0
Syracuse University	634	8	0	55	4	142	36	389
Teachers College, Columbia University	0	0	0	0	0	0	0	0
The Rockefeller University	0	0	0	0	0	0	0	0
Union College	25	0	0	2	0	20	0	3
University of Rochester	184	6	0	7	3	69	0	99
Vassar College	0	0	0	0	0	0	0	0
Wagner College	0	0	0	0	0	0	0	0
Yeshiva University	0	0	0	0	0	0	0	0
Pennsylvania	4,531	118	7	258	73	1,992	167	1,916
Bloomsburg University of Pennsylvania	0	0	0	0	0	0	0	0
Bryn Mawr College	0	0	0	0	0	0	0	0
Bucknell University	25	0	0	0	0	15	0	10
California University of Pennsylvania	0	0	0	0	0	0	0	0
Carnegie Mellon University	609	10	1	38	8	193	17	342
Clarion University of Pennsylvania	0	0	0	0	0	0	0	0
Drexel University	629	22	1	27	10	283	70	216
Duquesne University	0	0	0	0	0	0	0	0
East Stroudsburg Univ of Pennsylvania	0	0	0	0	0	0	0	0
Edinboro University of Pennsylvania	0	0	0	0	0	0	0	0
Gannon University	61	1	1	0	0	40	0	19
Indiana University of Pennsylvania	0	0	0	0	0	0	0	0
Kutztown University of Pennsylvania	0	0	0	0	0	0	0	0
Lehigh University	492	14	0	26	9	187	40	216
MCP Hahnemann University	0	0	0	0	0	0	0	0
Mansfield University of Pennsylvania	0	0	0	0	0	0	0	0
Marywood University	0	0	0	0	0	0	0	0
Medical College of Pennsylvania, The	0	0	0	0	0	0	0	0
Millersville University of Pennsylvania	0	0	0	0	0	0	0	0
Pennsylvania State University	1,397	30	1	62	25	610	12	657
Philadelphia Col of Osteopathic Med	0	0	0	0	0	0	0	0
Philadelphia Coll of Pharmacy and Sci	0	0	0	0	0	0	0	0
Shippensburg University of Pennsylvania	0	0	0	0	0	0	0	0
Slippery Rock University of Pennsylvania	0	0	0	0	0	0	0	0
St Joseph's University	0	0	0	0	0	0	0	0
Swarthmore College	0	0	0	0	0	0	0	0
Temple University	94	7	0	20	1	37	0	29
Thomas Jefferson University	0	0	0	0	0	0	0	0
University of Pennsylvania	340	10	3	53	11	139	1	123
University of Pittsburgh	615	16	0	22	5	333	3	236
University of Scranton	0	0	0	0	0	0	0	0
Villanova University	171	2	0	4	3	95	24	43
West Chester University of Pennsylvania	0	0	0	0	0	0	0	0
Widener University, All Campuses	84	6	0	6	1	48	0	23
Wilkes University	14	0	0	0	0	12	0	2
East North Central	19,128	373	17	779	303	7,999	582	9,075
Illinois	4,513	89	4	334	99	1,604	71	2,312
Bradley University	192	0	0	1	2	71	0	118

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Illinois, continued:								
Chicago School of Prof Psych	0	0	0	0	0	0	0	0
Chicago State University	0	0	0	0	0	0	0	0
DePaul University	0	0	0	0	0	0	0	0
Eastern Illinois University	0	0	0	0	0	0	0	0
Finch U of Hlth Sci/The Chicago Med Sch	0	0	0	0	0	0	0	0
Governors State University	0	0	0	0	0	0	0	0
Illinois Institute of Technology	816	16	1	61	31	269	16	422
Illinois State University	0	0	0	0	0	0	0	0
Loyola University of Chicago	0	0	0	0	0	0	0	0
Midwestern University	0	0	0	0	0	0	0	0
Northeastern Illinois University	0	0	0	0	0	0	0	0
Northern Illinois University	144	0	0	9	2	61	0	72
Northwestern University	602	22	1	45	11	261	7	255
Roosevelt University	38	5	0	4	4	13	4	8
Rush University	0	0	0	0	0	0	0	0
Southern Illinois Univ at Carbondale	228	10	0	9	0	75	2	132
Southern Illinois Univ at Edwardsville	160	3	0	7	0	63	0	87
Univ of Illinois at Urbana-Champaign	1,429	12	2	124	34	559	26	672
University of Chicago	0	0	0	0	0	0	0	0
University of Illinois at Chicago	904	21	0	74	15	232	16	546
University of Illinois at Springfield	0	0	0	0	0	0	0	0
Western Illinois University	0	0	0	0	0	0	0	0
Indiana	2,065	38	4	75	41	754	12	1,141
Ball State University	35	0	0	0	0	30	0	5
Butler University	0	0	0	0	0	0	0	0
Indiana State University	0	0	0	0	0	0	0	0
Indiana University	82	0	0	6	1	37	2	36
Indiana Wesleyan University	0	0	0	0	0	0	0	0
Purdue University	1,540	31	3	63	34	492	10	907
Rose-Hulman Institute of Technology	126	0	0	0	0	92	0	34
University of Evansville	0	0	0	0	0	0	0	0
University of Notre Dame	282	7	1	6	6	103	0	159
University of Saint Francis	0	0	0	0	0	0	0	0
Valparaiso University	0	0	0	0	0	0	0	0
Michigan	5,570	146	2	220	82	2,602	387	2,131
Andrews University	0	0	0	0	0	0	0	0
Central Michigan University	0	0	0	0	0	0	0	0
Eastern Michigan University	0	0	0	0	0	0	0	0
Grand Valley State University	4	0	0	0	0	4	0	0
Michigan State University	502	17	0	26	15	149	3	292
Michigan Technological University	351	2	0	1	0	181	11	156
Northern Michigan University	0	0	0	0	0	0	0	0
Oakland University	575	7	0	22	0	407	14	125
University of Detroit Mercy	135	13	1	3	0	72	6	40
University of Michigan	2,513	56	1	133	54	1,306	117	846
Wayne State University	1,138	47	0	27	9	329	236	490
Western Michigan University	352	4	0	8	4	154	0	182
Ohio	4,900	73	5	100	49	1,918	95	2,660
Air Force Institute of Technology	197	0	0	0	1	100	12	84
Antioch University	0	0	0	0	0	0	0	0
Bowling Green State University	0	0	0	0	0	0	0	0
Case Western Reserve University	536	6	0	28	2	219	7	274
Cleveland State University	228	4	2	4	5	131	21	61
John Carroll University	0	0	0	0	0	0	0	0
Kent State University	0	0	0	0	0	0	0	0
Medical College of Ohio	0	0	0	0	0	0	0	0
Miami University (OH)	46	1	0	0	0	33	0	12
Ohio State University	1,070	14	1	17	14	415	14	595
Ohio University	268	2	0	5	0	55	0	206

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Ohio, continued:								
Union Institute, The	0	0	0	0	0	0	0	0
University of Akron	295	0	0	2	0	180	0	113
University of Cincinnati	1,010	9	2	19	9	245	8	718
University of Dayton	374	15	0	14	12	245	26	62
University of Toledo	510	10	0	2	2	133	3	360
Wright State University	322	9	0	9	4	131	4	165
Xavier University	0	0	0	0	0	0	0	0
Youngstown State University	44	3	0	0	0	31	0	10
Wisconsin	2,080	27	2	50	32	1,121	17	831
Marquette University	273	5	1	10	2	181	0	74
Medical College of Wisconsin	8	0	0	0	0	3	0	5
Milwaukee School of Engineering	345	7	0	8	2	316	0	12
University of Wisconsin-Eau Claire	0	0	0	0	0	0	0	0
University of Wisconsin-Green Bay	32	0	1	0	0	30	1	0
University of Wisconsin-La Crosse	0	0	0	0	0	0	0	0
University of Wisconsin-Madison	1,062	10	0	24	20	361	16	631
University of Wisconsin-Milwaukee	317	5	0	8	7	189	0	108
University of Wisconsin-Oshkosh	0	0	0	0	0	0	0	0
University of Wisconsin-Platteville	10	0	0	0	0	10	0	0
University of Wisconsin-River Falls	0	0	0	0	0	0	0	0
University of Wisconsin-Stevens Point	0	0	0	0	0	0	0	0
University of Wisconsin-Stout	33	0	0	0	1	31	0	1
University of Wisconsin-Whitewater	0	0	0	0	0	0	0	0
West North Central	5,550	69	11	212	69	2,306	90	2,793
Iowa	1,098	17	0	11	8	372	22	668
Des Moines Univ-Osteopathic Med Ctr	0	0	0	0	0	0	0	0
Drake University	0	0	0	0	0	0	0	0
Iowa State University	776	13	0	6	3	235	18	501
Loras College	0	0	0	0	0	0	0	0
Maharishi University of Management	0	0	0	0	0	0	0	0
Marycrest International Univ	0	0	0	0	0	0	0	0
University of Iowa	322	4	0	5	5	137	4	167
University of Northern Iowa	0	0	0	0	0	0	0	0
Kansas	1,226	7	7	32	21	503	31	625
Emporia State University	0	0	0	0	0	0	0	0
Fort Hays State University	0	0	0	0	0	0	0	0
Kansas State University	311	0	1	6	2	117	14	171
Pittsburg State University	0	0	0	0	0	0	0	0
University of Kansas	490	5	4	16	16	271	17	161
Washburn University of Topeka	0	0	0	0	0	0	0	0
Wichita State University	425	2	2	10	3	115	0	293
Minnesota	1,219	10	1	53	18	572	8	557
Bemidji State University	0	0	0	0	0	0	0	0
Mayo Graduate School	9	0	0	1	2	5	0	1
Minnesota State University at Mankato	12	0	0	1	0	7	1	3
Moorhead State University	0	0	0	0	0	0	0	0
Saint Mary's University of Minnesota	0	0	0	0	0	0	0	0
St. Cloud State University	0	0	0	0	0	0	0	0
University of Minnesota	1,198	10	1	51	16	560	7	553
Walden University	0	0	0	0	0	0	0	0
Missouri	1,284	27	1	83	14	527	27	605
Central Missouri State University	15	0	0	0	0	8	0	7
Forest Institute of Professional Psych	0	0	0	0	0	0	0	0
Kirkville College of Osteopathic Med	0	0	0	0	0	0	0	0
Lincoln University	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Missouri, continued:								
Northwest Missouri State University	0	0	0	0	0	0	0	0
Saint Louis University	15	0	0	2	1	2	0	10
Southeast Missouri State University	0	0	0	0	0	0	0	0
Southwest Missouri State University	11	1	0	1	0	6	0	3
Truman State University	0	0	0	0	0	0	0	0
University of Missouri-Columbia	308	6	0	15	7	77	3	200
University of Missouri-Kansas City	0	0	0	0	0	0	0	0
University of Missouri-Rolla	637	19	1	17	6	288	20	286
University of Missouri-St. Louis	0	0	0	0	0	0	0	0
Washington University	298	1	0	48	0	146	4	99
Nebraska	368	7	0	27	7	159	0	168
Creighton University	0	0	0	0	0	0	0	0
University of Nebraska Medical Center	0	0	0	0	0	0	0	0
University of Nebraska at Kearney	0	0	0	0	0	0	0	0
University of Nebraska at Lincoln	368	7	0	27	7	159	0	168
University of Nebraska at Omaha	0	0	0	0	0	0	0	0
North Dakota	152	0	0	5	0	83	0	64
North Dakota State University	117	0	0	2	0	59	0	56
University of North Dakota	35	0	0	3	0	24	0	8
South Dakota	203	1	2	1	1	90	2	106
South Dakota School of Mines and Tech	115	0	0	1	0	49	1	64
South Dakota State University	88	1	2	0	1	41	1	42
University of South Dakota	0	0	0	0	0	0	0	0
South Atlantic	18,005	1,026	30	1,255	664	8,214	298	6,518
Delaware	390	6	0	14	7	168	0	195
Delaware State University	0	0	0	0	0	0	0	0
University of Delaware	390	6	0	14	7	168	0	195
District of Columbia	1,454	162	2	103	37	742	69	339
American University	0	0	0	0	0	0	0	0
Catholic University of America	101	11	0	6	2	38	5	39
Gallaudet University	0	0	0	0	0	0	0	0
George Washington University	1,301	112	2	97	35	704	57	294
Georgetown University	0	0	0	0	0	0	0	0
Howard University	52	39	0	0	0	0	7	6
University of the District of Columbia	0	0	0	0	0	0	0	0
Florida	4,292	214	12	283	424	1,729	34	1,596
Embry-Riddle Aeronautical University	28	2	0	0	1	7	1	17
Florida A&M University	73	48	0	4	4	9	8	0
Florida Atlantic University	233	8	0	15	22	78	0	110
Florida Institute of Technology	212	3	0	7	11	114	2	75
Florida International University	336	15	3	14	137	59	0	108
Florida State University	190	45	0	34	7	49	7	48
Jacksonville University	0	0	0	0	0	0	0	0
Nova Southeastern University	0	0	0	0	0	0	0	0
University of Central Florida	791	24	0	52	61	328	3	323
University of Florida	1,459	44	6	62	89	613	6	639
University of Miami	222	10	1	23	40	80	1	67
University of South Florida	748	15	2	72	52	392	6	209
University of West Florida	0	0	0	0	0	0	0	0
Georgia	2,954	152	4	200	65	1,279	121	1,133
Augusta State University	0	0	0	0	0	0	0	0
Clark Atlanta University	0	0	0	0	0	0	0	0
Emory University	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Georgia, continued:								
Fort Valley State University	0	0	0	0	0	0	0	0
Georgia College and State University	0	0	0	0	0	0	0	0
Georgia Institute of Technology	2,752	151	4	185	64	1,222	8	1,118
Georgia Southern University	0	0	0	0	0	0	0	0
Georgia State University	0	0	0	0	0	0	0	0
Institute of Paper Science & Technology	75	1	0	4	1	47	7	15
Medical College of Georgia	0	0	0	0	0	0	0	0
Mercer University	106	0	0	0	0	0	106	0
Morehouse School of Medicine	0	0	0	0	0	0	0	0
State University of West Georgia	0	0	0	0	0	0	0	0
University of Georgia	21	0	0	11	0	10	0	0
Valdosta State University	0	0	0	0	0	0	0	0
Maryland	2,183	156	4	180	39	839	47	918
Coppin State College	0	0	0	0	0	0	0	0
Frostburg State University	0	0	0	0	0	0	0	0
Hood College	0	0	0	0	0	0	0	0
Johns Hopkins University	318	7	0	55	6	149	2	99
Loyola College	169	21	0	5	2	116	17	8
Morgan State University	48	47	0	1	0	0	0	0
Towson State University	0	0	0	0	0	0	0	0
Uniformed Serv Univ of the Hlth Sciences	0	0	0	0	0	0	0	0
Univ of Maryland - Baltimore County	154	2	1	17	3	49	0	82
University of Baltimore	0	0	0	0	0	0	0	0
University of Maryland Eastern Shore	0	0	0	0	0	0	0	0
University of Maryland at College Park	1,494	79	3	102	28	525	28	729
University of Maryland, Baltimore	0	0	0	0	0	0	0	0
Washington College	0	0	0	0	0	0	0	0
North Carolina	2,082	189	2	107	26	1,007	1	750
Appalachian State University	0	0	0	0	0	0	0	0
Duke University	263	4	0	11	3	139	0	106
East Carolina University	0	0	0	0	0	0	0	0
North Carolina A&T State University	196	104	0	16	2	20	1	53
North Carolina Central University	0	0	0	0	0	0	0	0
North Carolina State University	1,369	61	2	62	19	709	0	516
Univ of North Carolina at Chapel Hill	63	5	0	5	1	37	0	15
Univ of North Carolina at Charlotte	181	14	0	12	1	98	0	56
Univ of North Carolina at Greensboro	0	0	0	0	0	0	0	0
University of North Carolina/Wilmington	0	0	0	0	0	0	0	0
Wake Forest University	10	1	0	1	0	4	0	4
Western Carolina University	0	0	0	0	0	0	0	0
South Carolina	999	19	0	80	7	404	10	479
Clemson University	596	8	0	4	3	253	10	318
College of Charleston	0	0	0	0	0	0	0	0
Furman University	0	0	0	0	0	0	0	0
Medical University of South Carolina	0	0	0	0	0	0	0	0
University of South Carolina	403	11	0	76	4	151	0	161
Winthrop University	0	0	0	0	0	0	0	0
Virginia	3,059	116	5	274	56	1,752	14	842
College of William and Mary	43	3	0	12	2	26	0	0
Eastern Virginia Medical School	0	0	0	0	0	0	0	0
George Mason University	532	37	1	74	11	360	0	49
Hampton University	0	0	0	0	0	0	0	0
Hollins University	0	0	0	0	0	0	0	0
Institute of Textile Technology	22	2	0	0	0	20	0	0
James Madison University	0	0	0	0	0	0	0	0
Old Dominion University	339	21	0	12	6	130	12	158
Radford University	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Virginia, continued:								
University of Richmond	0	0	0	0	0	0	0	0
University of Virginia	528	11	0	37	8	364	0	108
Virginia Commonwealth University	33	1	0	0	0	7	0	25
Virginia Polytechnic Inst and State Univ	1,562	41	4	139	29	845	2	502
Virginia State University	0	0	0	0	0	0	0	0
West Virginia	592	12	1	14	3	294	2	266
Marshall University	38	1	1	1	0	31	2	2
University of Charleston	0	0	0	0	0	0	0	0
West Virginia Graduate College	0	0	0	0	0	0	0	0
West Virginia University	545	11	0	13	3	260	0	258
West Virginia University Institute of Te	9	0	0	0	0	3	0	6
East South Central	4,323	224	7	229	35	2,202	45	1,581
Alabama	1,385	93	3	110	14	717	12	436
Alabama A&M University	0	0	0	0	0	0	0	0
Alabama State University	0	0	0	0	0	0	0	0
Auburn University	368	16	1	9	3	181	7	151
Jacksonville State University	0	0	0	0	0	0	0	0
Troy State University in Montgomery	0	0	0	0	0	0	0	0
Tuskegee University	60	21	0	0	0	0	0	39
University of Alabama at Birmingham, The	170	17	0	18	3	100	3	29
University of Alabama in Huntsville, The	430	33	2	11	6	303	0	75
University of Alabama, The	280	4	0	68	1	111	2	94
University of Montevallo	0	0	0	0	0	0	0	0
University of South Alabama	77	2	0	4	1	22	0	48
Kentucky	868	23	1	38	10	528	17	251
Eastern Kentucky University	0	0	0	0	0	0	0	0
Morehead State University	0	0	0	0	0	0	0	0
Murray State University	0	0	0	0	0	0	0	0
Spalding University	0	0	0	0	0	0	0	0
University of Kentucky	355	3	0	8	1	180	17	146
University of Louisville	513	20	1	30	9	348	0	105
Western Kentucky University	0	0	0	0	0	0	0	0
Mississippi	446	18	0	33	7	142	0	246
Jackson State University	0	0	0	0	0	0	0	0
Mississippi State University	345	17	0	30	6	114	0	178
Mississippi University for Women	0	0	0	0	0	0	0	0
University of Mississippi	101	1	0	3	1	28	0	68
University of Southern Mississippi	0	0	0	0	0	0	0	0
Tennessee	1,624	90	3	48	4	815	16	648
Austin Peay State University	0	0	0	0	0	0	0	0
East Tennessee State University	0	0	0	0	0	0	0	0
Fisk University	0	0	0	0	0	0	0	0
Meharry Medical College	0	0	0	0	0	0	0	0
Middle Tennessee State University	0	0	0	0	0	0	0	0
Tennessee State University	96	21	0	8	0	12	13	42
Tennessee Technological University	190	10	0	0	1	48	0	131
University of Memphis, The	263	13	0	13	1	116	0	120
University of Tennessee at Chattanooga	57	7	0	3	1	29	0	17
University of Tennessee at Knoxville	617	22	2	13	1	461	0	118
University of Tennessee, Memphis	34	2	0	0	0	8	0	24
Vanderbilt University	367	15	1	11	0	141	3	196
West South Central	9,921	261	61	627	371	3,726	76	4,799
Arkansas	522	33	5	27	5	233	8	211
Arkansas State University	0	0	0	0	0	0	0	0
University of Arkansas - Med Sci Campus	0	0	0	0	0	0	0	0
University of Arkansas Main	522	33	5	27	5	233	8	211

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Arkansas, continued:								
University of Arkansas at Little Rock	0	0	0	0	0	0	0	0
University of Central Arkansas	0	0	0	0	0	0	0	0
Louisiana	1,084	35	8	26	20	351	25	619
Grambling State University	0	0	0	0	0	0	0	0
Louisiana State University	644	18	3	11	11	191	15	395
Louisiana Tech University	154	1	4	4	1	52	0	92
Loyola University New Orleans	0	0	0	0	0	0	0	0
McNeese State University	15	0	0	2	0	13	0	0
Nicholls State University	0	0	0	0	0	0	0	0
Northwestern State University	0	0	0	0	0	0	0	0
Southeastern Louisiana University	0	0	0	0	0	0	0	0
Southern University A & M, All Campuses	0	0	0	0	0	0	0	0
Tulane University	155	11	0	8	8	65	0	63
Univ of Louisiana at Lafayette	116	5	1	1	0	30	10	69
Univ of Louisiana at Monroe, The	0	0	0	0	0	0	0	0
Xavier University of Louisiana	0	0	0	0	0	0	0	0
Oklahoma	1,211	10	31	19	13	472	1	665
East Central University	0	0	0	0	0	0	0	0
Northeastern State University	58	0	13	0	0	39	0	6
Oklahoma State University	571	5	11	6	6	268	0	275
Oral Roberts University	0	0	0	0	0	0	0	0
Southwestern Oklahoma State University	0	0	0	0	0	0	0	0
University of Oklahoma	465	5	4	10	7	147	0	292
University of Tulsa	117	0	3	3	0	18	1	92
Texas	7,104	183	17	555	333	2,670	42	3,304
Abilene Christian University	0	0	0	0	0	0	0	0
Angelo State University	0	0	0	0	0	0	0	0
Baylor College of Dentistry	0	0	0	0	0	0	0	0
Baylor College of Medicine	0	0	0	0	0	0	0	0
Baylor University	0	0	0	0	0	0	0	0
Lamar University	142	0	0	8	2	28	0	104
Midwestern State University	0	0	0	0	0	0	0	0
Prairie View A&M University	35	14	0	4	1	3	0	13
Rice University	224	3	1	16	3	70	4	127
Sam Houston State University	0	0	0	0	0	0	0	0
Southern Methodist University	803	41	4	108	46	477	0	127
Southwest Texas State University	0	0	0	0	0	0	0	0
St. Mary's University	39	1	0	2	4	22	1	9
Stephen F. Austin State University	0	0	0	0	0	0	0	0
Sul Ross State University	0	0	0	0	0	0	0	0
Tarleton State University	0	0	0	0	0	0	0	0
Tarleton University System Center	0	0	0	0	0	0	0	0
Texas A&M U Sys Health Science Center	0	0	0	0	0	0	0	0
Texas A&M University	1,580	22	0	39	42	527	2	948
Texas A&M University-Commerce	0	0	0	0	0	0	0	0
Texas A&M University-Corpus Christi	0	0	0	0	0	0	0	0
Texas A&M University-Kingsville	183	0	2	7	25	18	0	131
Texas Christian University	0	0	0	0	0	0	0	0
Texas Southern University	0	0	0	0	0	0	0	0
Texas Tech University	423	5	1	11	22	189	6	189
Texas Woman's University	0	0	0	0	0	0	0	0
Trinity University	0	0	0	0	0	0	0	0
U of North TX Hlth Sci Ctr at Ft Worth	0	0	0	0	0	0	0	0
Univ of Texas Houston Hlth Sci Ctr	0	0	0	0	0	0	0	0
Univ of Texas M.D. Anderson Cancer Ctr	0	0	0	0	0	0	0	0
Univ of Texas Med Branch at Galveston	0	0	0	0	0	0	0	0
Univ of Texas SW Medical Ctr at Dallas	24	2	0	2	0	9	0	11
Univ of Texas at San Antonio Hlth Sci Ct	0	0	0	0	0	0	0	0
University of Houston	646	42	3	157	42	216	20	166

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Texas, continued:								
University of Houston - Victoria	0	0	0	0	0	0	0	0
University of Houston, Clear Lake	84	9	0	9	3	39	0	24
University of North Texas	59	0	0	0	0	30	8	21
University of Texas at Arlington	604	11	2	49	15	195	0	332
University of Texas at Austin	1,674	22	3	85	43	645	1	875
University of Texas at Dallas	279	8	0	44	12	101	0	114
University of Texas at El Paso	187	0	0	4	56	42	0	85
University of Texas at San Antonio	94	3	1	9	16	42	0	23
University of Texas at Tyler	3	0	0	1	0	2	0	0
University of Texas of the Permian Basin	0	0	0	0	0	0	0	0
University of Texas-Pan American	0	0	0	0	0	0	0	0
University of the Incarnate Word	0	0	0	0	0	0	0	0
West Texas A&M University	21	0	0	0	1	15	0	5
Mountain	6,632	46	29	375	244	3,352	287	2,299
Arizona	1,866	12	5	102	78	705	60	904
Arizona State University	1,262	7	4	62	55	457	53	624
Northern Arizona University	0	0	0	0	0	0	0	0
University of Arizona	604	5	1	40	23	248	7	280
Colorado	2,110	23	4	139	60	1,208	160	516
Colorado School of Mines	282	1	2	11	6	150	5	107
Colorado State University	351	4	0	7	4	192	21	123
National Technological University	466	8	2	79	23	279	52	23
University of Colorado	983	8	0	42	27	575	81	250
University of Denver	28	2	0	0	0	12	1	13
University of Northern Colorado	0	0	0	0	0	0	0	0
Idaho	307	1	3	11	9	213	2	68
Idaho State University	33	0	0	2	1	18	0	12
University of Idaho	274	1	3	9	8	195	2	56
Montana	191	0	2	0	1	141	0	47
Montana State University-Bozeman	133	0	2	0	0	95	0	36
Montana Tech of the Univ of Montana	58	0	0	0	1	46	0	11
University of Montana, The	0	0	0	0	0	0	0	0
Nevada	328	3	2	25	9	165	11	113
University of Nevada Las Vegas	168	3	2	19	6	101	1	36
University of Nevada, Reno	160	0	0	6	3	64	10	77
New Mexico	697	6	10	29	79	316	6	251
Eastern New Mexico University	0	0	0	0	0	0	0	0
New Mexico Highlands University	0	0	0	0	0	0	0	0
New Mexico Institute of Mining and Tech	72	0	0	0	3	24	0	15
New Mexico State University	249	2	3	16	28	108	0	7
University of New Mexico	376	4	7	13	48	184	6	4
Utah	1,009	1	3	67	6	525	48	359
Brigham Young University	240	0	0	1	3	199	1	36
University of Utah	461	0	2	22	3	184	47	203
Utah State University	308	1	1	44	0	142	0	120
Wyoming	124	0	0	2	2	79	0	41
University of Wyoming	124	0	0	2	2	79	0	41
Pacific	15,403	287	50	2,709	554	5,096	884	5,823
Alaska	111	3	1	2	1	77	2	25
University of Alaska Anchorage	44	3	1	1	0	37	2	0

See explanatory information, if any, and SOURCE at end of table.

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Alaska, continued:								
University of Alaska Fairbanks	67	0	0	1	1	40	0	25
University of Alaska Southeast	0	0	0	0	0	0	0	0
California	12,925	264	37	2,454	522	4,008	594	5,046
Azusa Pacific University	0	0	0	0	0	0	0	0
Biola University	0	0	0	0	0	0	0	0
CA School Prof Psychology-Alameda	0	0	0	0	0	0	0	0
Calif Poly State Univ, San Luis Obispo	103	0	0	1	0	55	0	47
Calif Sch of Prof Psych - Fresno	0	0	0	0	0	0	0	0
Calif Sch of Prof Psych - Los Angeles	0	0	0	0	0	0	0	0
Calif Sch of Prof Psych - San Diego	0	0	0	0	0	0	0	0
Calif State Univ, Dominguez Hills	20	6	0	2	4	3	2	3
Calif State Univ, Fullerton	133	2	1	45	11	32	17	25
Calif State Univ, Los Angeles	120	7	0	37	24	14	4	34
Calif State University at Sacramento	472	12	5	102	43	182	40	88
Calif State University, Stanislaus	0	0	0	0	0	0	0	0
California Institute of Integral Studies	0	0	0	0	0	0	0	0
California Institute of Technology	380	3	0	22	9	105	1	240
California State Poly University, Pomona	219	1	1	72	11	58	22	54
California State Univ, Bakersfield	0	0	0	0	0	0	0	0
California State Univ, San Bernadino	0	0	0	0	0	0	0	0
California State University, Chico	4	0	0	0	0	2	2	0
California State University, Fresno	14	0	0	4	0	4	4	2
California State University, Hayward	0	0	0	0	0	0	0	0
California State University, Long Beach	364	18	2	108	42	104	25	65
California State University, Northridge	278	7	4	55	26	125	36	25
Chapman University	0	0	0	0	0	0	0	0
Charles R. Drew Univ of Medicine & Sci	0	0	0	0	0	0	0	0
Claremont Graduate School	0	0	0	0	0	0	0	0
Dominican College of San Rafael	0	0	0	0	0	0	0	0
Fielding Institute, The	0	0	0	0	0	0	0	0
Fuller Theological Seminary	0	0	0	0	0	0	0	0
Golden Gate University	0	0	0	0	0	0	0	0
Harvey Mudd College	6	0	0	0	0	6	0	0
Humboldt State University	43	0	0	0	2	33	7	1
John F Kennedy University	0	0	0	0	0	0	0	0
Loma Linda University	0	0	0	0	0	0	0	0
Loyola Marymount University	81	6	0	17	12	31	15	0
National University	167	24	3	37	7	74	2	20
Northrop University	0	0	0	0	0	0	0	0
Occidental College	0	0	0	0	0	0	0	0
Pacific Graduate School of Psychology	0	0	0	0	0	0	0	0
Pacific States University	0	0	0	0	0	0	0	0
Pepperdine University	0	0	0	0	0	0	0	0
RAND Graduate School of Policy Studies	0	0	0	0	0	0	0	0
San Diego State University	185	8	1	34	23	63	31	25
San Francisco State University	49	1	0	15	5	14	2	12
San Jose State University	887	20	1	466	34	142	75	149
Santa Clara University	391	6	1	127	25	100	43	89
Sonoma State University	0	0	0	0	0	0	0	0
Stanford University	2,617	57	7	390	70	862	52	1,179
US International University	0	0	0	0	0	0	0	0
US Naval Postgraduate School	315	1	0	17	1	138	0	158
University of Calif, Berkeley	1,480	34	3	204	46	582	62	549
University of Calif, Davis	618	12	2	89	22	290	33	170
University of Calif, Riverside	27	0	0	0	0	4	1	22
University of Calif, San Diego	498	4	2	84	15	218	19	156
University of Calif, San Francisco	31	3	0	7	4	17	0	0
University of Calif, Santa Barbara	430	1	1	24	9	173	19	203
University of Calif, Santa Cruz	67	0	0	13	0	11	4	39
University of California, Irvine	319	2	0	61	11	70	18	157
University of California, Los Angeles	789	8	2	181	21	198	50	329
University of La Verne	0	0	0	0	0	0	0	0
University of Redlands	0	0	0	0	0	0	0	0

Table 33. Graduate engineering students in all institutions, by region, State, institution, and citizenship, and by racial/ethnic background of U.S. citizens and permanent residents: 1999

Region, State, and institution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
California, continued:								
University of San Diego	0	0	0	0	0	0	0	0
University of San Francisco	0	0	0	0	0	0	0	0
University of Southern California	1,818	21	1	240	45	298	8	1,205
University of the Pacific	0	0	0	0	0	0	0	0
West Coast University	0	0	0	0	0	0	0	0
Wright Institute	0	0	0	0	0	0	0	0
Hawaii	196	0	0	53	0	28	10	105
University of Hawaii at Manoa	196	0	0	53	0	28	10	105
Oregon	823	4	5	93	8	337	207	169
Oregon Grad Inst of Science & Technology	86	0	0	33	0	20	30	3
Oregon Health Sciences University	0	0	0	0	0	0	0	0
Oregon State University	384	2	0	33	2	141	155	51
Pacific University	0	0	0	0	0	0	0	0
Portland State University	346	2	5	27	6	175	22	109
Southern Oregon State College	0	0	0	0	0	0	0	0
University of Oregon	0	0	0	0	0	0	0	0
University of Portland	7	0	0	0	0	1	0	6
Washington	1,348	16	7	107	23	646	71	478
Central Washington University	0	0	0	0	0	0	0	0
Eastern Washington University	0	0	0	0	0	0	0	0
Gonzaga University	0	0	0	0	0	0	0	0
Pacific Lutheran University	0	0	0	0	0	0	0	0
Saint Martin's College	23	0	0	0	0	20	0	3
Seattle University	68	2	1	11	1	28	13	12
University of Washington	1,034	13	6	91	20	507	58	339
Walla Walla College	0	0	0	0	0	0	0	0
Washington State University	223	1	0	5	2	91	0	124
Western Washington University	0	0	0	0	0	0	0	0
Whitworth College	0	0	0	0	0	0	0	0
Outlying Areas	246	0	0	0	198	0	0	48
Guam	0	0	0	0	0	0	0	0
University of Guam	0	0	0	0	0	0	0	0
Puerto Rico	246	0	0	0	198	0	0	48
Caribbean Center for Advanced Studies	0	0	0	0	0	0	0	0
Ponce School of Medicine	0	0	0	0	0	0	0	0
Pontifical Cath Univ of Puerto Rico, The	0	0	0	0	0	0	0	0
Univ of Puerto Rico Mayaguez Campus	246	0	0	0	198	0	0	48
Univ of Puerto Rico Rio Piedras Campus	0	0	0	0	0	0	0	0
University of Puerto Rico Med Sci Campus	0	0	0	0	0	0	0	0

NOTES: Includes medical schools

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 34. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	438,109	446,383	447,058	441,360	435,959	429,159	426,529	432,657
Total, science and engineering fields	384,038	388,330	385,121	376,466	370,339	363,188	359,833	364,403
Sciences, total	274,001	279,069	279,087	276,024	273,377	268,077	265,954	268,916
Physical sciences, total	33,763	33,709	32,914	31,896	30,926	29,759	29,380	29,487
Astronomy	869	880	973	912	874	778	820	832
Chemistry	18,970	19,130	18,833	18,580	18,357	17,818	17,618	17,622
Physics	13,710	13,441	12,776	12,099	11,422	10,916	10,607	10,643
Physical sciences, n.e.c.	214	258	332	305	273	247	335	390
Earth, atmos., & ocean sci., total	14,058	14,357	14,577	14,385	13,879	13,152	12,921	12,811
Atmospheric sciences	1,076	1,095	1,090	1,062	1,079	1,081	954	906
Geosciences	7,334	7,385	7,326	7,180	6,894	6,562	6,293	6,265
Oceanography	2,402	2,473	2,678	2,549	2,462	2,313	2,395	2,457
Earth, atmos., & ocean sci., n.e.c.	3,246	3,404	3,483	3,594	3,444	3,196	3,279	3,183
Mathematical sciences, total	18,369	17,916	17,613	16,597	16,176	14,975	14,546	14,301
Mathematics & applied mathematics	15,483	14,939	14,575	13,569	13,184	12,344	11,956	11,628
Statistics	2,886	2,977	3,038	3,028	2,992	2,631	2,590	2,673
Computer sciences	30,334	30,704	29,483	28,840	29,687	30,737	32,211	35,393
Agricultural sciences	11,183	11,252	11,474	11,593	11,229	11,078	11,021	11,150
Biological sciences, total	50,547	52,496	54,091	54,401	54,024	53,177	53,066	53,336
Anatomy	991	986	1,043	1,008	1,046	1,029	947	913
Biochemistry	5,333	5,455	5,567	5,522	5,234	5,070	5,120	5,079
Biology	11,211	11,489	11,400	11,220	11,569	11,753	11,354	11,149
Biometry/epidemiology	2,365	2,658	2,710	2,812	3,001	2,900	3,484	3,575
Biophysics	751	780	794	845	833	748	737	710
Botany	2,665	2,705	2,741	2,605	2,501	2,396	2,319	2,252
Cell biology	3,132	3,403	3,789	3,922	3,935	3,872	3,971	4,218
Ecology	1,155	1,251	1,420	1,508	1,497	1,471	1,520	1,559
Entomology/parasitology	1,193	1,247	1,263	1,241	1,234	1,161	1,168	1,145
Genetics	1,599	1,733	1,649	1,651	1,679	1,713	1,660	1,714
Microbio., immunology, & virology	4,932	5,037	5,114	5,045	4,937	4,829	4,847	4,890
Nutrition	3,870	4,045	4,254	4,460	4,381	4,235	4,081	4,143
Pathology	1,379	1,485	1,603	1,575	1,583	1,621	1,514	1,509
Pharmacology	2,532	2,649	2,839	2,710	2,663	2,597	2,711	2,729
Physiology	2,317	2,372	2,378	2,540	2,377	2,298	2,151	2,064
Zoology	2,117	2,115	2,085	2,063	1,907	1,723	1,670	1,610
Biosciences, n.e.c.	3,005	3,086	3,442	3,674	3,647	3,761	3,812	4,077
Psychology, total	40,450	40,739	40,854	40,223	39,946	40,426	40,002	39,328
Psychology, general	13,599	13,062	12,820	12,259	11,570	12,030	12,006	11,391
Clinical psychology	10,635	10,969	10,966	11,007	11,311	11,588	11,305	11,410
Psychology, n.e.c.	16,216	16,708	17,068	16,957	17,065	16,808	16,691	16,527
Social sciences, total	75,297	77,896	78,081	78,089	77,510	74,773	72,807	73,110
Agricultural economics	2,501	2,377	2,251	2,315	2,110	2,038	1,992	2,011
Anthropology (cultural & social)	6,862	7,114	7,414	7,419	7,491	7,238	7,213	7,255
Economics (except agricultural)	12,419	12,433	12,217	11,959	11,391	10,532	10,137	9,993
Geography	3,504	3,751	3,863	3,834	3,827	3,760	3,764	3,726
History and philosophy of science	360	369	387	401	409	443	449	503
Linguistics	2,930	2,947	2,937	2,857	2,848	2,793	2,662	2,570
Political science	28,493	29,680	28,895	28,596	27,750	26,282	25,397	25,649
Sociology	8,037	8,388	8,403	8,434	8,305	8,226	7,837	7,788
Sociology/anthropology	902	841	877	840	850	874	850	730
Social sciences, n.e.c.	9,289	9,996	10,837	11,434	12,529	12,587	12,506	12,885
Engineering, total	110,037	109,261	106,034	100,442	96,962	95,111	93,879	95,487
Aerospace engineering	3,999	3,905	3,653	3,287	3,140	3,029	3,096	3,290
Agricultural engineering	1,008	1,018	1,061	1,037	1,012	941	925	934
Biomedical engineering	2,485	2,613	2,674	2,662	2,685	2,785	2,850	3,069
Chemical engineering	7,273	7,411	7,517	7,330	7,281	7,148	6,974	6,778
Civil engineering	18,092	18,087	18,481	17,865	17,316	16,105	15,512	15,333
Electrical engineering	33,523	32,650	30,631	28,335	27,442	28,343	28,736	29,054
Engineering science	2,185	2,148	2,069	1,945	1,741	1,636	1,685	1,604
Industrial/manufacturing eng.	12,411	12,506	12,632	12,026	11,396	10,713	10,062	10,055
Mechanical engineering	17,557	17,476	16,923	15,682	14,823	14,371	13,967	14,188
Metallurgical/materials eng.	5,353	5,216	5,071	4,821	4,643	4,572	4,567	4,375
Mining engineering	426	411	399	362	351	333	290	320
Nuclear engineering	1,286	1,306	1,246	1,154	980	868	821	830
Petroleum engineering	729	717	612	594	551	557	567	630
Engineering, n.e.c.	3,710	3,797	3,065	3,342	3,601	3,710	3,827	5,027

See explanatory information, if any, and SOURCE at end of table.

Table 34. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, health fields	54,071	58,053	61,937	64,894	65,620	65,971	66,696	68,254
Medical fields, total	12,004	13,380	14,218	14,748	14,621	14,505	15,800	16,442
Anesthesiology	511	494	516	529	647	616	650	643
Cardiology	8	11	14	19	18	33	36	63
Oncology/cancer research	197	209	208	189	185	198	209	250
Endocrinology	71	63	63	53	46	43	58	67
Gastroenterology	0	1	0	0	0	3	6	7
Hematology	5	3	2	1	3	3	1	5
Neurology	1,149	1,311	1,455	1,554	1,632	1,696	1,800	1,888
Obstetrics and gynecology	3	3	4	6	4	18	13	16
Ophthalmology	27	19	32	30	33	33	38	49
Otorhinolaryngology	0	1	2	0	0	2	0	3
Pediatrics	154	196	261	238	275	342	328	316
Preventive medicine/community health	8,559	9,626	10,114	10,598	10,239	9,967	11,169	11,559
Psychiatry	96	103	144	158	131	135	86	87
Pulmonary disease	0	0	0	0	0	0	0	6
Radiology	252	287	320	268	227	221	191	187
Surgery	76	82	119	174	167	171	122	122
Clinical medicine, n.e.c.	896	971	964	931	1,014	1,024	1,093	1,174
Other health fields, total	42,067	44,673	47,719	50,146	50,999	51,466	50,896	51,812
Dental sciences	1,121	1,133	1,199	1,251	1,291	1,411	1,426	1,383
Nursing	20,076	20,982	22,893	23,835	22,597	22,057	20,529	20,488
Pharmaceutical sciences	2,776	2,839	2,876	2,786	2,818	2,694	2,782	3,296
Speech pathology/audiology	7,640	8,133	8,567	8,804	9,305	9,526	9,552	9,728
Veterinary sciences	923	853	858	915	932	1,160	1,174	1,194
Health related, n.e.c.	9,531	10,733	11,326	12,555	14,056	14,618	15,433	15,723

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 35. Graduate students in science, engineering, and health fields in public doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	306,210	311,393	312,045	307,805	303,245	297,923	294,861	299,482
Total, science and engineering fields	265,713	268,901	266,773	261,082	255,443	250,243	247,464	250,553
Sciences, total	187,336	190,711	190,857	188,949	186,035	182,220	180,329	181,970
Physical sciences, total	24,332	24,388	23,812	23,238	22,444	21,601	21,527	21,482
Astronomy	561	579	591	556	525	471	509	511
Chemistry	13,643	13,816	13,633	13,572	13,365	13,048	13,031	12,925
Physics	9,914	9,735	9,273	8,824	8,287	7,840	7,665	7,664
Physical sciences, n.e.c.	214	258	315	286	267	242	322	382
Earth, atmos., & ocean sci., total	11,525	11,785	11,860	11,958	11,593	11,039	10,820	10,713
Atmospheric sciences	1,051	1,077	1,071	1,037	1,059	1,057	933	889
Geosciences	5,946	5,984	5,912	5,851	5,634	5,367	5,107	5,106
Oceanography	1,948	1,996	2,119	2,109	2,048	1,922	2,012	2,050
Earth, atmos., & ocean sci., n.e.c.	2,580	2,728	2,758	2,961	2,852	2,693	2,768	2,668
Mathematical sciences	14,073	13,729	13,397	12,516	12,211	11,247	10,809	10,667
Computer sciences	17,790	17,997	17,504	17,505	17,654	18,795	19,619	21,710
Agricultural sciences	10,731	10,815	11,036	11,184	10,825	10,703	10,638	10,766
Biological sciences, total	36,840	38,171	39,256	39,002	38,637	37,814	37,788	37,807
Anatomy	733	750	797	770	784	770	691	673
Biochemistry	3,648	3,670	3,873	3,856	3,693	3,580	3,597	3,561
Biology	7,843	8,113	8,085	7,777	8,093	8,162	7,840	7,799
Biometry/epidemiology	1,562	1,728	1,732	1,724	1,777	1,734	2,138	2,189
Biophysics	417	426	415	472	459	419	417	416
Botany	2,539	2,566	2,621	2,466	2,364	2,253	2,183	2,112
Cell biology	1,833	2,087	2,278	2,351	2,380	2,341	2,502	2,635
Ecology	1,066	1,162	1,314	1,406	1,399	1,381	1,431	1,439
Entomology/parasitology	1,127	1,186	1,193	1,179	1,171	1,101	1,109	1,087
Genetics	1,133	1,147	1,083	1,077	1,119	1,144	1,075	1,099
Microbio., immunology, & virology	3,545	3,577	3,611	3,548	3,446	3,362	3,352	3,313
Nutrition	3,254	3,312	3,474	3,607	3,534	3,410	3,370	3,384
Pathology	982	982	1,046	1,023	1,026	1,010	1,008	982
Pharmacology	1,757	1,871	1,979	1,872	1,797	1,750	1,810	1,820
Physiology	1,526	1,559	1,521	1,548	1,439	1,373	1,341	1,305
Zoology	1,979	1,976	1,951	1,914	1,780	1,598	1,558	1,496
Biosciences, n.e.c.	1,896	2,059	2,283	2,412	2,376	2,426	2,366	2,497
Psychology	20,926	20,689	20,679	20,701	19,958	20,487	20,089	19,307
Social sciences, total	51,119	53,137	53,313	52,845	52,713	50,534	49,039	49,518
Agricultural economics	2,383	2,265	2,136	2,182	2,024	1,968	1,925	1,946
Anthropology (cultural & social)	4,944	5,210	5,395	5,328	5,396	5,172	5,150	5,262
Economics (except agricultural)	8,011	8,118	8,018	7,749	7,369	6,768	6,414	6,441
Geography	3,201	3,425	3,529	3,540	3,509	3,467	3,456	3,401
Linguistics	2,095	2,112	2,077	2,046	1,973	1,953	1,876	1,834
Political science	17,566	18,188	17,434	17,086	16,459	15,423	14,716	15,107
Sociology	5,957	6,212	6,218	6,229	6,192	6,105	5,904	5,712
Sociology/anthropology	622	652	694	652	669	709	693	616
Social sciences, other	6,340	6,955	7,812	8,033	9,122	8,969	8,905	9,199
Engineering, total	78,377	78,190	75,916	72,133	69,408	68,023	67,135	68,583
Aerospace engineering	3,173	3,102	2,872	2,549	2,399	2,310	2,295	2,308
Agricultural engineering	967	970	1,006	981	959	893	880	888
Biomedical engineering	1,497	1,601	1,601	1,620	1,671	1,824	1,842	1,991
Chemical engineering	5,336	5,461	5,538	5,381	5,292	5,124	5,016	4,809
Civil engineering	13,708	13,684	13,820	13,489	13,158	12,373	11,850	11,990
Electrical engineering	22,033	21,680	20,683	19,374	18,320	19,015	19,007	19,864
Engineering science	1,456	1,419	1,359	1,287	1,246	1,117	1,063	1,102
Industrial/manufacturing eng.	8,725	8,880	8,871	8,243	7,812	7,295	7,196	7,513
Mechanical engineering	13,129	13,009	12,590	11,784	11,246	10,818	10,797	10,890
Metallurgical/materials eng.	3,672	3,646	3,596	3,395	3,266	3,215	3,164	3,045
Nuclear engineering	1,081	1,094	1,062	975	826	751	715	716
Engineering, other	3,600	3,644	2,918	3,055	3,213	3,288	3,310	3,467
Total, health fields	40,497	42,492	45,272	46,723	47,802	47,680	47,397	48,929
Clinical fields	1,456	1,510	1,675	1,630	1,751	1,805	1,774	1,908
Dental sciences	840	860	919	925	992	1,090	1,125	1,134
Nursing	15,670	16,416	18,210	18,811	18,048	17,621	16,437	16,450
Pharmaceutical sciences	2,249	2,343	2,330	2,255	2,311	2,163	2,115	2,570
Preventive medicine/community health	5,901	6,510	6,606	7,002	6,854	6,576	7,074	7,244
Speech pathology/audiology	6,347	6,502	6,861	6,988	7,470	7,573	7,457	7,831
Veterinary sciences	880	802	807	875	894	1,123	1,139	1,169
Other health fields	7,154	7,549	7,864	8,237	9,482	9,729	10,276	10,623

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 36. Graduate students in science, engineering, and health fields in private doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	131,899	134,990	135,013	133,555	132,714	131,236	131,668	133,175
Total, science and engineering fields	118,325	119,429	118,348	115,384	114,896	112,945	112,369	113,850
Sciences, total	86,665	88,358	88,230	87,075	87,342	85,857	85,625	86,946
Physical sciences, total	9,431	9,321	9,102	8,658	8,482	8,158	7,853	8,005
Astronomy	308	301	382	356	349	307	311	321
Chemistry	5,327	5,314	5,200	5,008	4,992	4,770	4,587	4,697
Physics	3,796	3,706	3,503	3,275	3,135	3,076	2,942	2,979
Physical sciences, n.e.c.	0	0	17	19	6	5	13	8
Earth, atmos., & ocean sci., total	2,533	2,572	2,717	2,427	2,286	2,113	2,101	2,098
Atmospheric sciences	25	18	19	25	20	24	21	17
Geosciences	1,388	1,401	1,414	1,329	1,260	1,195	1,186	1,159
Oceanography	454	477	559	440	414	391	383	407
Earth, atmos., & ocean sci., n.e.c.	666	676	725	633	592	503	511	515
Mathematical sciences	4,296	4,187	4,216	4,081	3,965	3,728	3,737	3,634
Computer sciences	12,544	12,707	11,979	11,335	12,033	11,942	12,592	13,683
Agricultural sciences	452	437	438	409	404	375	383	384
Biological sciences, total	13,707	14,325	14,835	15,399	15,387	15,363	15,278	15,529
Anatomy	258	236	246	238	262	259	256	240
Biochemistry	1,685	1,785	1,694	1,666	1,541	1,490	1,523	1,518
Biology	3,368	3,376	3,315	3,443	3,476	3,591	3,514	3,350
Biometry/epidemiology	803	930	978	1,088	1,224	1,166	1,346	1,386
Biophysics	334	354	379	373	374	329	320	294
Botany	126	139	120	139	137	143	136	140
Cell biology	1,299	1,316	1,511	1,571	1,555	1,531	1,469	1,583
Ecology	89	89	106	102	98	90	89	120
Entomology/parasitology	66	61	70	62	63	60	59	58
Genetics	466	586	566	574	560	569	585	615
Microbio., immunology, & virology	1,387	1,460	1,503	1,497	1,491	1,467	1,495	1,577
Nutrition	616	733	780	853	847	825	711	759
Pathology	397	503	557	552	557	611	506	527
Pharmacology	775	778	860	838	866	847	901	909
Physiology	791	813	857	992	938	925	810	759
Zoology	138	139	134	149	127	125	112	114
Biosciences, n.e.c.	1,109	1,027	1,159	1,262	1,271	1,335	1,446	1,580
Psychology	19,524	20,050	20,175	19,522	19,988	19,939	19,913	20,021
Social sciences, total	24,178	24,759	24,768	25,244	24,797	24,239	23,768	23,592
Agricultural economics	118	112	115	133	86	70	67	65
Anthropology (cultural & social)	1,918	1,904	2,019	2,091	2,095	2,066	2,063	1,993
Economics (except agricultural)	4,408	4,315	4,199	4,210	4,022	3,764	3,723	3,552
Geography	303	326	334	294	318	293	308	325
Linguistics	835	835	860	811	875	840	786	736
Political science	10,927	11,492	11,461	11,510	11,291	10,859	10,681	10,542
Sociology	2,080	2,176	2,185	2,205	2,113	2,121	1,933	2,076
Sociology/anthropology	280	189	183	188	181	165	157	114
Social sciences, other	3,309	3,410	3,412	3,802	3,816	4,061	4,050	4,189
Engineering, total	31,660	31,071	30,118	28,309	27,554	27,088	26,744	26,904
Aerospace engineering	826	803	781	738	741	719	801	982
Agricultural engineering	41	48	55	56	53	48	45	46
Biomedical engineering	988	1,012	1,073	1,042	1,014	961	1,008	1,078
Chemical engineering	1,937	1,950	1,979	1,949	1,989	2,024	1,958	1,969
Civil engineering	4,384	4,403	4,661	4,376	4,158	3,732	3,662	3,343
Electrical engineering	11,490	10,970	9,948	8,961	9,122	9,328	9,729	9,190
Engineering science	729	729	710	658	495	519	622	502
Industrial/manufacturing eng.	3,686	3,626	3,761	3,783	3,584	3,418	2,866	2,542
Mechanical engineering	4,428	4,467	4,333	3,898	3,577	3,553	3,170	3,298
Metallurgical/materials eng.	1,681	1,570	1,475	1,426	1,377	1,357	1,403	1,330
Nuclear engineering	205	212	184	179	154	117	106	114
Engineering, other	1,265	1,281	1,158	1,243	1,290	1,312	1,374	2,510
Total, health fields	13,574	15,561	16,665	18,171	17,818	18,291	19,299	19,325
Clinical fields	840	933	974	966	999	1,037	1,057	1,087
Dental sciences	281	273	280	326	299	321	301	249
Nursing	4,406	4,566	4,683	5,024	4,549	4,436	4,092	4,038
Pharmaceutical sciences	527	496	546	531	507	531	667	726
Preventive medicine/community health	2,658	3,116	3,508	3,596	3,385	3,391	4,095	4,315
Speech pathology/audiology	1,293	1,631	1,706	1,816	1,835	1,953	2,095	1,897
Veterinary sciences	43	51	51	40	38	37	35	25
Other health fields	3,526	4,495	4,917	5,872	6,206	6,585	6,957	6,988

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table 37. Graduate students in science and engineering fields in doctorate-granting institutions,
by enrollment status, citizenship, and racial/ethnic background
of U.S. citizens and permanent residents: 1992-1999**

Enrollment status, citizenship, and racial/ethnic background	1992	1993	1994	1995	1996	1997	1998	1999
Total enrollment	384,038	388,330	385,121	376,466	370,339	363,188	359,833	364,403
Total U.S. citizens and permanent residents	279,352	286,992	286,883	281,663	276,171	268,333	262,228	259,576
Black, non-Hispanic	12,218	13,287	13,888	14,415	14,917	14,906	15,018	15,289
American Indian/Alaskan Native	1,033	1,101	1,202	1,280	1,320	1,376	1,369	1,300
Asian/Pacific Islander	18,341	20,754	23,162	22,525	22,686	22,706	22,734	23,191
Hispanic	10,581	11,493	11,478	12,074	12,443	12,850	13,091	13,849
White, non-Hispanic	223,872	226,306	225,404	217,055	210,900	201,911	195,404	191,592
Other or unknown	13,307	14,051	11,749	14,314	13,905	14,584	14,612	14,355
Students with temporary visas	104,686	101,338	98,238	94,803	94,168	94,855	97,605	104,827
Full-time enrollment	274,343	277,640	276,615	270,610	267,579	263,790	261,477	265,867
Total U.S. citizens and permanent residents	183,957	190,429	192,460	189,455	186,370	181,424	177,070	175,116
Black, non-Hispanic	7,781	8,596	9,119	9,275	9,449	9,611	9,532	9,352
American Indian/Alaskan Native	744	814	870	957	978	1,004	983	913
Asian/Pacific Islander	12,432	14,274	16,144	15,703	15,724	15,831	16,034	16,392
Hispanic	7,015	7,561	7,565	8,344	8,485	8,747	8,991	9,414
White, non-Hispanic	148,745	151,272	152,293	147,191	143,915	137,956	133,294	131,035
Other or unknown	7,240	7,912	6,469	7,985	7,819	8,275	8,236	8,010
Students with temporary visas	90,386	87,211	84,155	81,155	81,209	82,366	84,407	90,751
Part-time enrollment	109,695	110,690	108,506	105,856	102,760	99,398	98,356	98,536
Total U.S. citizens and permanent residents	95,395	96,563	94,423	92,208	89,801	86,909	85,158	84,460
Black, non-Hispanic	4,437	4,691	4,769	5,140	5,468	5,295	5,486	5,937
American Indian/Alaskan Native	289	287	332	323	342	372	386	387
Asian/Pacific Islander	5,909	6,480	7,018	6,822	6,962	6,875	6,700	6,799
Hispanic	3,566	3,932	3,913	3,730	3,958	4,103	4,100	4,435
White, non-Hispanic	75,127	75,034	73,111	69,864	66,985	63,955	62,110	60,557
Other or unknown	6,067	6,139	5,280	6,329	6,086	6,309	6,376	6,345
Students with temporary visas	14,300	14,127	14,083	13,648	12,959	12,489	13,198	14,076

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 38. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	432,657	19,401	1,667	27,689	17,170	239,753	16,882	110,095
Total, science and engineering fields	364,403	15,289	1,300	23,191	13,849	191,592	14,355	104,827
Sciences, total	268,916	12,624	1,095	16,122	11,190	152,330	11,003	64,552
Physical sciences, total	29,487	770	65	1,540	844	14,444	897	10,927
Astronomy	832	9	2	31	13	511	27	239
Chemistry	17,622	546	50	1,006	596	9,024	460	5,940
Physics	10,643	207	12	479	218	4,739	313	4,675
Physical sciences, n.e.c.	390	8	1	24	17	170	97	73
Earth, atmos., & ocean sci., total	12,811	184	56	342	343	9,031	395	2,460
Atmospheric sciences	906	7	2	41	7	548	30	271
Geosciences	6,265	59	24	134	148	4,491	203	1,206
Oceanography	2,457	27	12	64	111	1,694	37	512
Earth, atmos., & ocean sci., n.e.c.	3,183	91	18	103	77	2,298	125	471
Mathematical sciences	14,301	434	26	752	364	6,718	441	5,566
Computer sciences	35,393	1,182	52	4,565	659	12,117	1,732	15,086
Agricultural sciences	11,150	162	59	266	382	7,606	220	2,455
Biological sciences, total	53,336	1,955	171	4,215	1,977	31,839	2,090	11,089
Anatomy	913	35	3	80	27	554	19	195
Biochemistry	5,079	139	6	526	150	2,665	138	1,455
Biology	11,149	538	45	637	513	6,914	630	1,872
Biometry/epidemiology	3,575	188	5	377	155	1,939	176	735
Biophysics	710	17	1	100	17	383	38	154
Botany	2,252	54	4	77	49	1,362	59	647
Cell biology	4,218	104	9	446	149	2,508	175	827
Ecology	1,559	17	5	41	37	1,253	35	171
Entomology/parasitology	1,145	17	1	19	27	757	22	302
Genetics	1,714	50	4	156	56	978	95	375
Microbio., immunology, & virology	4,890	191	16	417	203	2,828	266	969
Nutrition	4,143	196	15	203	161	2,456	76	1,036
Pathology	1,509	46	7	171	51	876	63	295
Pharmacology	2,729	129	14	287	91	1,589	50	569
Physiology	2,064	78	8	276	84	1,101	63	454
Zoology	1,610	16	7	50	31	1,301	39	166
Biosciences, n.e.c.	4,077	140	21	352	176	2,375	146	867
Psychology	39,328	2,481	235	1,627	2,762	28,202	2,003	2,018
Social sciences, total	73,110	5,456	431	2,815	3,859	42,373	3,225	14,951
Agricultural economics	2,011	83	7	53	35	879	28	926
Anthropology (cultural & social)	7,255	280	96	232	300	5,210	328	809
Economics (except agricultural)	9,993	246	12	508	219	3,437	249	5,322
Geography	3,726	79	10	86	92	2,718	157	584
Linguistics	2,570	43	14	112	115	1,279	93	914
Political science	25,649	2,687	131	940	1,659	15,328	1,149	3,755
Sociology	7,788	728	56	350	525	4,740	272	1,117
Sociology/anthropology	730	87	9	8	33	492	19	82
Social sciences, other	13,388	1,223	96	526	881	8,290	930	1,442
Engineering, total	95,487	2,665	205	7,069	2,659	39,262	3,352	40,275
Aerospace engineering	3,290	49	8	147	75	1,418	85	1,508
Agricultural engineering	934	23	1	41	16	423	22	408
Biomedical engineering	3,069	104	8	305	86	1,621	84	861
Chemical engineering	6,778	142	16	473	179	2,767	221	2,980
Civil engineering	15,333	417	47	799	627	7,643	523	5,277
Electrical engineering	29,054	767	41	2,880	683	9,027	1,074	14,582
Engineering science	1,604	35	6	170	41	772	49	531
Industrial/manufacturing eng.	10,055	436	20	691	369	4,617	466	3,456
Mechanical engineering	14,188	351	30	912	357	6,112	397	6,029
Metallurgical/materials eng.	4,375	79	10	227	71	1,890	78	2,020
Nuclear engineering	830	15	2	22	28	424	7	332
Engineering, other	5,977	247	16	402	127	2,548	346	2,291

See explanatory information, if any, and SOURCE at end of table.

Table 38. Graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, health fields	68,254	4,112	367	4,498	3,321	48,161	2,527	5,268
Clinical fields	2,995	137	18	344	135	1,917	165	279
Dental sciences	1,383	33	1	168	75	828	13	265
Nursing	20,488	1,287	140	782	752	16,292	728	507
Pharmaceutical sciences	3,296	141	9	436	179	1,240	49	1,242
Preventive medicine/community hlth	11,559	1,185	80	1,226	972	6,311	454	1,331
Speech pathology/audiology	9,728	418	41	225	409	7,976	329	330
Veterinary sciences	1,194	27	8	23	27	762	22	325
Other health fields	17,611	884	70	1,294	772	12,835	767	989

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 39. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	303,305	309,429	311,064	307,446	306,225	304,029	303,095	309,466
Total, science and engineering fields	274,343	277,640	276,615	270,610	267,579	263,790	261,477	265,867
Sciences, total	201,880	205,731	206,878	204,552	203,300	199,715	197,850	199,784
Physical sciences, total	30,128	30,025	29,463	28,289	27,373	26,319	25,909	26,159
Astronomy	840	848	953	871	854	768	787	808
Chemistry	16,692	16,837	16,749	16,351	16,089	15,594	15,430	15,615
Physics	12,468	12,197	11,565	10,873	10,257	9,808	9,552	9,556
Physical sciences, n.e.c.	128	143	196	194	173	149	140	180
Earth, atmos., & ocean sci., total	10,535	10,878	10,951	10,782	10,311	9,987	9,992	10,057
Atmospheric sciences	958	978	981	956	977	964	854	791
Geosciences	5,712	5,808	5,778	5,609	5,396	5,224	5,046	5,094
Oceanography	2,061	2,130	2,263	2,183	2,038	1,924	2,005	2,081
Earth, atmos., & ocean sci., n.e.c.	1,804	1,962	1,929	2,034	1,900	1,875	2,087	2,091
Mathematical sciences	14,066	13,892	13,546	12,787	12,384	11,591	11,129	11,175
Computer sciences	15,995	16,036	15,599	15,430	15,858	16,761	18,070	20,186
Agricultural sciences	9,109	9,102	9,132	9,156	8,882	8,677	8,529	8,668
Biological sciences, total	42,911	44,787	46,346	46,597	46,027	45,232	45,296	45,442
Anatomy	922	938	947	930	977	968	893	871
Biochemistry	5,030	5,138	5,201	5,191	4,976	4,803	4,871	4,797
Biology	8,508	8,734	8,799	8,665	8,669	8,922	8,695	8,565
Biometry/epidemiology	1,634	1,990	2,056	2,093	2,162	2,005	2,559	2,604
Biophysics	728	755	770	800	807	728	707	681
Botany	2,279	2,351	2,345	2,146	2,128	2,049	1,989	1,949
Cell biology	2,999	3,225	3,628	3,740	3,734	3,714	3,797	4,009
Ecology	976	1,040	1,187	1,276	1,239	1,156	1,179	1,220
Entomology/parasitology	1,016	1,039	1,066	1,041	1,027	995	1,000	971
Genetics	1,488	1,640	1,553	1,572	1,605	1,620	1,579	1,620
Microbio., immunology, & virology	4,445	4,600	4,698	4,666	4,531	4,408	4,448	4,542
Nutrition	2,776	2,918	3,078	3,280	3,302	3,137	2,984	2,986
Pathology	1,138	1,264	1,359	1,350	1,339	1,418	1,327	1,351
Pharmacology	2,400	2,505	2,681	2,539	2,510	2,461	2,550	2,551
Physiology	2,160	2,220	2,221	2,376	2,217	2,102	1,990	1,876
Zoology	1,768	1,743	1,712	1,741	1,625	1,513	1,418	1,378
Biosciences, n.e.c.	2,644	2,687	3,045	3,191	3,179	3,233	3,310	3,471
Psychology	28,151	28,696	28,938	28,829	29,141	29,356	28,898	28,615
Social sciences, total	50,985	52,315	52,903	52,682	53,324	51,792	50,027	49,482
Agricultural economics	2,092	1,945	1,914	1,962	1,781	1,718	1,670	1,686
Anthropology (cultural & social)	5,231	5,332	5,718	5,662	5,866	5,626	5,549	5,611
Economics (except agricultural)	9,825	9,783	9,655	9,406	9,240	8,549	8,295	8,108
Geography	2,567	2,760	2,831	2,741	2,757	2,714	2,668	2,582
Linguistics	2,401	2,447	2,420	2,382	2,433	2,332	2,196	2,107
Political science	16,195	16,947	16,498	16,085	16,140	15,514	14,891	14,752
Sociology	6,091	6,180	6,306	6,293	6,179	6,205	5,948	5,862
Sociology/anthropology	612	613	644	617	590	631	608	514
Social sciences, other	5,971	6,308	6,917	7,534	8,338	8,503	8,202	8,260
Engineering, total	72,463	71,909	69,737	66,058	64,279	64,075	63,627	66,083
Aerospace engineering	3,269	3,227	2,967	2,668	2,545	2,505	2,544	2,623
Agricultural engineering	840	835	879	859	799	748	756	767
Biomedical engineering	2,138	2,234	2,246	2,277	2,281	2,411	2,475	2,708
Chemical engineering	5,914	6,017	6,069	5,925	5,879	5,736	5,568	5,547
Civil engineering	12,047	12,026	12,211	11,813	11,413	11,002	10,725	10,857
Electrical engineering	20,347	19,764	18,799	17,644	17,442	18,318	18,804	19,561
Engineering science	1,408	1,395	1,343	1,241	1,054	1,016	1,111	1,027
Industrial/manufacturing eng.	5,873	5,709	5,729	5,144	4,988	4,935	4,705	5,145
Mechanical engineering	12,124	12,177	11,699	10,989	10,509	10,256	9,900	10,157
Metallurgical/materials eng.	4,255	4,226	4,084	3,864	3,687	3,646	3,677	3,510
Nuclear engineering	1,084	1,070	997	883	771	708	662	641
Engineering, other	3,164	3,229	2,714	2,751	2,911	2,794	2,700	3,540
Total, health fields	28,962	31,789	34,449	36,836	38,646	40,239	41,618	43,599
Clinical fields	1,873	2,048	2,190	2,171	2,234	2,410	2,374	2,568
Dental sciences	988	1,003	1,048	1,096	1,116	1,235	1,219	1,161
Nursing	5,703	6,079	6,887	7,330	7,345	7,664	7,439	8,065
Pharmaceutical sciences	2,063	2,119	2,175	2,138	2,214	2,219	2,197	2,521
Preventive medicine/community health	4,753	5,246	5,343	5,851	5,686	5,651	6,463	6,770
Speech pathology/audiology	5,744	6,329	6,722	6,748	7,183	7,422	7,532	7,791
Veterinary sciences	743	673	679	719	722	972	958	957
Other health fields	7,095	8,292	9,405	10,783	12,146	12,666	13,436	13,766

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 40. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields:								
Total, all sources	303,305	309,429	311,064	307,446	306,225	304,029	303,095	309,466
Federal, total	64,472	66,608	67,210	66,157	64,267	63,481	62,722	64,607
Dept. of Defense	9,166	9,662	9,347	9,227	8,667	8,912	8,182	7,951
Dept. of HHS, total	21,178	21,730	22,259	22,371	21,995	22,034	22,236	22,935
NIH	16,998	17,986	18,134	17,985	17,846	17,919	17,999	18,883
Other HHS	4,180	3,744	4,125	4,386	4,149	4,115	4,237	4,052
NASA ¹	N/A	N/A	N/A	N/A	2,246	2,537	2,581	2,500
NSF	13,304	13,423	13,782	13,568	13,362	13,315	13,397	13,795
USDA	3,193	3,298	3,391	3,212	2,966	2,613	2,436	2,592
All other Federal	17,631	18,495	18,431	17,779	15,031	14,070	13,890	14,834
Institutional support	122,977	124,306	124,514	124,566	123,198	123,698	123,503	127,474
Other non-Federal support, total	27,432	26,403	26,900	25,523	24,988	24,630	25,912	25,700
All other U.S.	21,045	20,970	21,230	20,036	19,795	19,843	21,712	21,833
Foreign	6,387	5,433	5,670	5,487	5,193	4,787	4,200	3,867
Self-support	88,424	92,112	92,440	91,200	93,772	92,220	90,958	91,885
Total, science and engineering:								
Total, all sources	274,343	277,640	276,615	270,610	267,579	263,790	261,477	265,867
Federal, total	57,483	59,646	59,941	58,737	57,278	56,241	55,207	56,717
Dept. of Defense	8,785	9,241	8,982	8,901	8,359	8,604	7,892	7,603
Dept. of HHS, total	16,172	16,718	17,044	17,033	16,829	16,704	16,624	17,145
NIH	14,948	15,766	15,852	15,609	15,423	15,261	15,220	15,913
Other HHS	1,224	952	1,192	1,424	1,406	1,443	1,404	1,232
NASA ¹	N/A	N/A	N/A	N/A	2,232	2,516	2,555	2,485
NSF	13,234	13,338	13,674	13,477	13,281	13,220	13,279	13,674
USDA	3,124	3,229	3,324	3,164	2,922	2,579	2,398	2,550
All other Federal	16,168	17,120	16,917	16,162	13,655	12,618	12,459	13,260
Institutional support	115,887	116,784	116,643	116,229	114,797	114,849	114,384	117,637
Other non-Federal support, total	25,760	24,692	25,075	23,599	23,020	22,745	23,841	23,432
All other U.S.	19,829	19,697	19,859	18,631	18,254	18,444	20,072	19,977
Foreign	5,931	4,995	5,216	4,968	4,766	4,301	3,769	3,455
Self-support	75,213	76,518	74,956	72,045	72,484	69,955	68,045	68,081
Sciences, total:								
Total, all sources	201,880	205,731	206,878	204,552	203,300	199,715	197,850	199,784
Federal, total	41,027	42,889	43,342	42,476	41,565	40,450	39,811	40,930
Dept. of Defense	3,843	4,143	4,323	4,132	3,864	3,867	3,605	3,285
Dept. of HHS, total	15,277	15,798	16,142	16,115	15,994	15,789	15,724	16,184
NIH	14,156	14,976	15,074	14,841	14,692	14,495	14,466	15,069
Other HHS	1,121	822	1,068	1,274	1,302	1,294	1,258	1,115
NASA ¹	N/A	N/A	N/A	N/A	1,153	1,264	1,333	1,369
NSF	8,655	8,823	9,060	8,917	8,706	8,621	8,588	8,730
USDA	2,766	2,925	2,979	2,824	2,632	2,366	2,215	2,321
All other Federal	10,486	11,200	10,838	10,488	9,216	8,543	8,346	9,041
Institutional support	91,450	92,253	92,466	92,789	91,774	91,479	91,372	92,822
Other non-Federal support, total	15,307	15,027	15,748	14,550	14,201	13,852	14,158	14,015
All other U.S.	11,370	11,651	12,128	11,217	10,961	10,949	11,560	11,640
Foreign	3,937	3,376	3,620	3,333	3,240	2,903	2,598	2,375
Self-support	54,096	55,562	55,322	54,737	55,760	53,934	52,509	52,017
Physical sciences:								
Total, all sources	30,128	30,025	29,463	28,289	27,373	26,319	25,909	26,159
Federal, total	10,936	11,037	10,946	10,258	9,797	9,375	9,072	9,163
Dept. of Defense	1,190	1,184	1,313	1,195	1,069	1,031	991	882
Dept. of HHS, total	2,168	2,139	2,182	2,045	2,038	1,931	1,866	1,827
NIH	2,040	2,030	2,053	1,878	1,772	1,627	1,621	1,652
Other HHS	128	109	129	167	266	304	245	175
NASA ¹	N/A	N/A	N/A	N/A	523	570	580	544
NSF	3,594	3,609	3,692	3,577	3,373	3,368	3,314	3,270
USDA	67	60	42	38	43	31	40	31
All other Federal	3,917	4,045	3,717	3,403	2,751	2,444	2,281	2,609
Institutional support	15,051	14,885	14,531	14,506	14,033	13,832	13,803	13,891
Other non-Federal support, total	2,340	2,228	2,305	2,074	2,072	1,847	1,842	1,912
All other U.S.	2,035	1,949	1,998	1,787	1,793	1,633	1,653	1,740
Foreign	305	279	307	287	279	214	189	172
Self-support	1,801	1,875	1,681	1,451	1,471	1,265	1,192	1,193

See explanatory information, if any, and SOURCE at end of table.

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Table 40. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Earth, atmos., & ocean sciences:								
Total, all sources	10,535	10,878	10,951	10,782	10,311	9,987	9,992	10,057
Federal, total	3,403	3,623	3,577	3,441	3,253	3,082	2,933	2,959
Dept. of Defense	472	513	493	408	389	364	336	338
Dept. of HHS, total	49	48	37	33	49	40	38	42
NIH	43	41	36	30	30	27	21	22
Other HHS	6	7	1	3	19	13	17	20
NASA ¹	N/A	N/A	N/A	N/A	326	350	388	407
NSF	1,312	1,352	1,393	1,375	1,238	1,198	1,115	1,123
USDA	85	64	61	64	74	51	74	53
All other Federal	1,485	1,646	1,593	1,561	1,177	1,079	982	996
Institutional support	4,083	4,133	4,131	4,212	4,036	4,129	4,217	4,501
Other non-Federal support, total	990	925	1,015	958	906	874	843	835
All other U.S.	746	733	782	724	690	690	679	673
Foreign	244	192	233	234	216	184	164	162
Self-support	2,059	2,197	2,228	2,171	2,116	1,902	1,999	1,762
Mathematical sciences:								
Total, all sources	14,066	13,892	13,546	12,787	12,384	11,591	11,129	11,175
Federal, total	1,460	1,437	1,375	1,267	1,233	1,150	1,038	1,101
Dept. of Defense	385	399	372	322	351	363	283	227
Dept. of HHS, total	118	80	76	87	82	96	100	105
NIH	111	74	68	63	61	66	68	78
Other HHS	7	6	8	24	21	30	32	27
NASA ¹	N/A	N/A	N/A	N/A	21	19	11	14
NSF	455	463	511	465	435	385	384	441
USDA	24	27	16	13	9	16	7	7
All other Federal	478	468	400	380	335	271	253	307
Institutional support	9,225	9,066	9,097	8,795	8,530	8,184	7,991	7,987
Other non-Federal support, total	617	507	537	477	551	479	438	404
All other U.S.	348	286	319	290	344	302	299	280
Foreign	269	221	218	187	207	177	139	124
Self-support	2,764	2,882	2,537	2,248	2,070	1,778	1,662	1,683
Computer sciences:								
Total, all sources	15,995	16,036	15,599	15,430	15,858	16,761	18,070	20,186
Federal, total	2,597	2,891	3,034	3,147	3,090	3,139	3,270	3,309
Dept. of Defense	1,171	1,314	1,329	1,418	1,342	1,425	1,299	1,201
Dept. of HHS, total	100	103	97	110	113	106	110	107
NIH	97	95	89	92	80	78	75	64
Other HHS	3	8	8	18	33	28	35	43
NASA ¹	N/A	N/A	N/A	N/A	119	120	122	110
NSF	960	1,006	1,046	1,054	1,051	1,081	1,164	1,297
USDA	6	7	9	13	13	12	10	17
All other Federal	360	461	553	552	452	395	565	577
Institutional support	5,297	5,233	5,147	5,211	5,340	5,575	5,828	6,583
Other non-Federal support, total	1,311	1,368	1,366	1,275	1,141	1,172	1,270	1,507
All other U.S.	995	1,116	1,088	1,050	901	1,015	1,105	1,373
Foreign	316	252	278	225	240	157	165	134
Self-support	6,790	6,544	6,052	5,797	6,287	6,875	7,702	8,787
Agricultural sciences:								
Total, all sources	9,109	9,102	9,132	9,156	8,882	8,677	8,529	8,668
Federal, total	1,942	1,946	1,906	2,011	1,927	1,741	1,621	1,854
Dept. of Defense	18	37	35	32	38	39	47	28
Dept. of HHS, total	41	34	48	23	31	29	28	26
NIH	38	32	45	17	17	21	13	15
Other HHS	3	2	3	6	14	8	15	11
NASA ¹	N/A	N/A	N/A	N/A	22	20	26	50
NSF	76	76	87	88	95	100	90	106
USDA	1,093	1,140	1,108	1,172	1,040	937	924	1,033
All other Federal	714	659	628	696	701	616	506	611
Institutional support	3,516	3,541	3,722	3,758	3,582	3,553	3,633	3,647
Other non-Federal support, total	1,683	1,666	1,653	1,461	1,432	1,544	1,561	1,548
All other U.S.	1,097	1,176	1,137	1,062	1,082	1,208	1,270	1,289
Foreign	586	490	516	399	350	336	291	259
Self-support	1,968	1,949	1,851	1,926	1,941	1,839	1,714	1,619

See explanatory information, if any, and SOURCE at end of table.

Table 40. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary source of support: 1992-1999

Field and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Biological sciences:								
Total, all sources	42,911	44,787	46,346	46,597	46,027	45,232	45,296	45,442
Federal, total	15,020	16,069	16,594	16,528	16,468	16,214	16,091	16,391
Dept. of Defense	229	269	347	356	358	359	343	327
Dept. of HHS, total	11,003	11,567	11,933	12,024	11,843	11,810	11,855	12,200
NIH	10,589	11,249	11,418	11,352	11,254	11,226	11,240	11,710
Other HHS	414	318	515	672	589	584	615	490
NASA ¹	N/A	N/A	N/A	N/A	85	108	101	96
NSF	1,334	1,364	1,369	1,403	1,484	1,525	1,537	1,500
USDA	1,080	1,219	1,283	1,080	1,070	923	805	841
All other Federal	1,374	1,650	1,662	1,665	1,628	1,489	1,450	1,427
Institutional support	19,082	19,298	19,967	20,061	19,627	19,505	19,485	19,701
Other non-Federal support, total	3,762	3,840	4,127	3,883	3,724	3,535	3,727	3,332
All other U.S.	3,086	3,259	3,494	3,277	3,167	3,017	3,199	2,862
Foreign	676	581	633	606	557	518	528	470
Self-support	5,047	5,580	5,658	6,125	6,208	5,978	5,993	6,018
Psychology:								
Total, all sources	28,151	28,696	28,938	28,829	29,141	29,356	28,898	28,615
Federal, total	2,462	2,571	2,539	2,467	2,661	2,646	2,831	3,118
Dept. of Defense	135	163	172	174	136	110	121	116
Dept. of HHS, total	1,378	1,412	1,347	1,320	1,512	1,447	1,423	1,534
NIH	942	1,153	1,080	1,089	1,213	1,188	1,212	1,263
Other HHS	436	259	267	231	299	259	211	271
NASA ¹	N/A	N/A	N/A	N/A	7	12	14	15
NSF	281	308	287	286	287	277	275	301
USDA	19	15	27	16	5	7	8	13
All other Federal	649	673	706	671	714	793	990	1,139
Institutional support	11,426	12,090	11,886	11,812	11,897	12,253	11,901	11,888
Other non-Federal support, total	1,083	1,045	1,142	1,072	959	1,188	1,306	1,375
All other U.S.	1,026	998	1,069	1,029	920	1,131	1,254	1,320
Foreign	57	47	73	43	39	57	52	55
Self-support	13,180	12,990	13,371	13,478	13,624	13,269	12,860	12,234
Social sciences:								
Total, all sources	50,985	52,315	52,903	52,682	53,324	51,792	50,027	49,482
Federal, total	3,207	3,315	3,371	3,357	3,136	3,103	2,955	3,035
Dept. of Defense	243	264	262	227	181	176	185	166
Dept. of HHS, total	420	415	422	473	326	330	304	343
NIH	296	302	285	320	265	262	216	265
Other HHS	124	113	137	153	61	68	88	78
NASA ¹	N/A	N/A	N/A	N/A	50	65	91	133
NSF	643	645	675	669	743	687	709	692
USDA	392	393	433	428	378	389	347	326
All other Federal	1,509	1,598	1,579	1,560	1,458	1,456	1,319	1,375
Institutional support	23,770	24,007	23,985	24,434	24,729	24,448	24,514	24,624
Other non-Federal support, total	3,521	3,448	3,603	3,350	3,416	3,213	3,171	3,102
All other U.S.	2,037	2,134	2,241	1,998	2,064	1,953	2,101	2,103
Foreign	1,484	1,314	1,362	1,352	1,352	1,260	1,070	999
Self-support	20,487	21,545	21,944	21,541	22,043	21,028	19,387	18,721
Engineering, total:								
Total, all sources	72,463	71,909	69,737	66,058	64,279	64,075	63,627	66,083
Federal, total	16,456	16,757	16,599	16,261	15,713	15,791	15,396	15,787
Dept. of Defense	4,942	5,098	4,659	4,769	4,495	4,737	4,287	4,318
Dept. of HHS, total	895	920	902	918	835	915	900	961
NIH	792	790	778	768	731	766	754	844
Other HHS	103	130	124	150	104	149	146	117
NASA ¹	N/A	N/A	N/A	N/A	1,079	1,252	1,222	1,116
NSF	4,579	4,515	4,614	4,560	4,575	4,599	4,691	4,944
USDA	358	304	345	340	290	213	183	229
All other Federal	5,682	5,920	6,079	5,674	4,439	4,075	4,113	4,219
Institutional support	24,437	24,531	24,177	23,440	23,023	23,370	23,012	24,815
Other non-Federal support, total	10,453	9,665	9,327	9,049	8,819	8,893	9,683	9,417
All other U.S.	8,459	8,046	7,731	7,414	7,293	7,495	8,512	8,337
Foreign	1,994	1,619	1,596	1,635	1,526	1,398	1,171	1,080
Self-support	21,117	20,956	19,634	17,308	16,724	16,021	15,536	16,064

See explanatory information, if any, and SOURCE at end of table.

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Table 41. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary mechanism of support: 1992-1999

Field and primary mechanism of support	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields:								
Total, all types	303,305	309,429	311,064	307,446	306,225	304,029	303,095	309,466
Fellowships	28,167	28,685	28,481	28,443	28,352	28,395	28,579	29,545
Traineeships	14,892	14,953	15,051	15,375	14,871	13,771	14,402	14,163
Research assistantships	86,339	88,301	89,915	87,917	85,713	85,836	85,961	88,891
Teaching assistantships	63,753	65,435	64,974	64,112	63,877	63,530	63,211	64,241
Other types of support	110,154	112,055	112,643	111,599	113,412	112,497	110,942	112,626
Total, science and engineering:								
Total, all types	274,343	277,640	276,615	270,610	267,579	263,790	261,477	265,867
Fellowships	26,337	26,741	26,406	26,306	25,955	26,020	26,167	26,910
Traineeships	9,873	10,106	10,150	10,450	10,198	9,464	9,670	9,352
Research assistantships	82,561	84,547	85,787	83,666	81,609	81,266	81,233	83,933
Teaching assistantships	61,366	63,061	62,309	61,392	60,975	60,520	60,188	61,302
Other types of support	94,206	93,185	91,963	88,796	88,842	86,520	84,219	84,370
Sciences, total:								
Total, all types	201,880	205,731	206,878	204,552	203,300	199,715	197,850	199,784
Fellowships	20,272	20,621	20,457	20,373	20,346	20,315	20,653	20,896
Traineeships	8,885	9,077	9,237	9,449	9,335	8,600	8,805	8,589
Research assistantships	55,180	56,788	57,970	56,791	55,276	54,526	54,045	55,470
Teaching assistantships	50,706	52,080	51,726	51,374	51,114	50,516	50,242	50,747
Other types of support	66,837	67,165	67,488	66,565	67,229	65,758	64,105	64,082
Physical sciences:								
Total, all types	30,128	30,025	29,463	28,289	27,373	26,319	25,909	26,159
Fellowships	2,805	2,691	2,401	2,309	2,162	2,091	2,080	2,174
Traineeships	695	742	665	672	630	517	479	381
Research assistantships	12,339	12,180	12,247	11,717	11,405	11,171	10,945	11,162
Teaching assistantships	11,675	11,972	11,717	11,482	11,042	10,719	10,698	10,707
Other types of support	2,614	2,440	2,433	2,109	2,134	1,821	1,707	1,735
Earth, atmos., & ocean sciences:								
Total, all types	10,535	10,878	10,951	10,782	10,311	9,987	9,992	10,057
Fellowships	888	898	864	892	866	810	920	924
Traineeships	120	153	138	131	131	89	113	107
Research assistantships	4,488	4,615	4,715	4,528	4,204	4,147	3,985	4,142
Teaching assistantships	2,339	2,407	2,393	2,414	2,396	2,513	2,445	2,481
Other types of support	2,700	2,805	2,841	2,817	2,714	2,428	2,529	2,403
Mathematical sciences:								
Total, all types	14,066	13,892	13,546	12,787	12,384	11,591	11,129	11,175
Fellowships	1,394	1,350	1,203	1,291	1,275	1,195	1,091	1,022
Traineeships	220	258	244	216	177	176	153	106
Research assistantships	1,334	1,352	1,466	1,376	1,237	1,314	1,134	1,209
Teaching assistantships	7,484	7,336	7,340	7,026	6,905	6,506	6,370	6,561
Other types of support	3,634	3,596	3,293	2,878	2,790	2,400	2,381	2,277
Computer sciences:								
Total, all types	15,995	16,036	15,599	15,430	15,858	16,761	18,070	20,186
Fellowships	839	801	893	895	901	920	983	974
Traineeships	142	210	245	223	187	196	210	198
Research assistantships	3,561	3,660	3,768	3,795	3,863	3,920	4,181	4,732
Teaching assistantships	3,439	3,504	3,305	3,294	3,291	3,548	3,689	4,214
Other types of support	8,014	7,861	7,388	7,223	7,616	8,177	9,007	10,068
Agricultural sciences:								
Total, all types	9,109	9,102	9,132	9,156	8,882	8,677	8,529	8,668
Fellowships	472	522	513	449	424	427	431	428
Traineeships	110	153	116	124	121	113	98	74
Research assistantships	5,126	5,191	5,342	5,297	5,105	5,021	4,899	5,029
Teaching assistantships	774	867	872	924	928	924	990	1,114
Other types of support	2,627	2,369	2,289	2,362	2,304	2,192	2,111	2,023
Biological sciences:								
Total, all types	42,911	44,787	46,346	46,597	46,027	45,232	45,296	45,442
Fellowships	4,983	5,165	5,474	5,317	5,216	5,425	5,616	5,785
Traineeships	4,820	4,895	5,207	5,292	5,336	5,017	5,194	5,271
Research assistantships	17,407	18,598	19,168	19,008	18,427	18,282	18,013	18,203
Teaching assistantships	8,527	8,721	8,932	8,858	8,903	8,706	8,647	8,242
Other types of support	7,174	7,408	7,565	8,122	8,145	7,802	7,826	7,941
Psychology:								
Total, all types	28,151	28,696	28,938	28,829	29,141	29,356	28,898	28,615
Fellowships	1,807	1,883	1,807	1,790	1,905	2,062	2,264	2,366
Traineeships	1,117	1,070	993	1,060	1,114	994	1,020	937
Research assistantships	3,907	4,156	4,209	4,186	4,268	4,248	4,264	4,242
Teaching assistantships	5,454	5,927	5,713	5,781	5,810	5,840	5,608	5,647
Other types of support	15,866	15,660	16,216	16,012	16,044	16,212	15,742	15,423

See explanatory information, if any, and SOURCE at end of table.

Table 41. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by field and primary mechanism of support: 1992-1999

Field and primary mechanism of support	1992	1993	1994	1995	1996	1997	1998	1999
Social sciences:								
Total, all types	50,985	52,315	52,903	52,682	53,324	51,792	50,027	49,482
Fellowships	7,084	7,311	7,302	7,430	7,597	7,385	7,268	7,223
Traineeships	1,661	1,596	1,629	1,731	1,639	1,498	1,538	1,515
Research assistantships	7,018	7,036	7,055	6,884	6,767	6,423	6,624	6,751
Teaching assistantships	11,014	11,346	11,454	11,595	11,839	11,760	11,795	11,781
Other types of support	24,208	25,026	25,463	25,042	25,482	24,726	22,802	22,212
Engineering, total:								
Total, all types	72,463	71,909	69,737	66,058	64,279	64,075	63,627	66,083
Fellowships	6,065	6,120	5,949	5,933	5,609	5,705	5,514	6,014
Traineeships	988	1,029	913	1,001	863	864	865	763
Research assistantships	27,381	27,759	27,817	26,875	26,333	26,740	27,188	28,463
Teaching assistantships	10,660	10,981	10,583	10,018	9,861	10,004	9,946	10,555
Other types of support	27,369	26,020	24,475	22,231	21,613	20,762	20,114	20,288
Chemical engineering:								
Total, all types	5,914	6,017	6,069	5,925	5,879	5,736	5,568	5,547
Fellowships	733	718	701	779	757	818	713	834
Traineeships	153	123	98	105	93	94	97	65
Research assistantships	3,012	3,114	3,268	3,104	3,049	2,964	2,879	2,922
Teaching assistantships	1,005	1,017	938	906	916	916	890	958
Other types of support	1,011	1,045	1,064	1,031	1,064	944	989	768
Civil engineering:								
Total, all types	12,047	12,026	12,211	11,813	11,413	11,002	10,725	10,857
Fellowships	798	888	867	892	862	833	790	833
Traineeships	213	205	187	189	175	176	178	191
Research assistantships	3,917	4,013	4,190	4,183	4,092	3,966	3,845	4,083
Teaching assistantships	1,611	1,791	1,871	1,817	1,761	1,752	1,743	1,763
Other types of support	5,508	5,129	5,096	4,732	4,523	4,275	4,169	3,987
Electrical engineering:								
Total, all types	20,347	19,764	18,799	17,644	17,442	18,318	18,804	19,561
Fellowships	1,489	1,446	1,478	1,434	1,376	1,378	1,313	1,359
Traineeships	160	169	145	155	152	122	133	76
Research assistantships	6,807	6,881	6,763	6,645	6,871	7,463	7,651	8,328
Teaching assistantships	3,350	3,343	3,167	3,067	3,128	3,289	3,290	3,333
Other types of support	8,541	7,925	7,246	6,343	5,915	6,066	6,417	6,465
Industrial engineering:								
Total, all types	5,873	5,709	5,729	5,144	4,988	4,935	4,705	5,145
Fellowships	266	281	270	299	234	238	251	242
Traineeships	27	48	32	37	14	21	24	22
Research assistantships	1,209	1,252	1,307	1,319	1,267	1,248	1,355	1,400
Teaching assistantships	874	927	925	813	777	768	772	878
Other types of support	3,497	3,201	3,195	2,676	2,696	2,660	2,303	2,603
Mechanical engineering:								
Total, all types	12,124	12,177	11,699	10,989	10,509	10,256	9,900	10,157
Fellowships	900	905	923	925	897	836	894	870
Traineeships	162	210	187	187	165	215	180	142
Research assistantships	4,725	4,742	4,646	4,379	4,238	4,308	4,453	4,588
Teaching assistantships	2,146	2,233	2,037	1,900	1,825	1,853	1,748	1,921
Other types of support	4,191	4,087	3,906	3,598	3,384	3,044	2,625	2,636
Other engineering:								
Total, all types	16,158	16,216	15,230	14,543	14,048	13,828	13,925	14,816
Fellowships	1,879	1,882	1,710	1,604	1,483	1,602	1,553	1,876
Traineeships	273	274	264	328	264	236	253	267
Research assistantships	7,711	7,757	7,643	7,245	6,816	6,791	7,005	7,142
Teaching assistantships	1,674	1,670	1,645	1,515	1,454	1,426	1,503	1,702
Other types of support	4,621	4,633	3,968	3,851	4,031	3,773	3,611	3,829
Total, health fields:								
Total, all types	28,962	31,789	34,449	36,836	38,646	40,239	41,618	43,599
Fellowships	1,830	1,944	2,075	2,137	2,397	2,375	2,412	2,635
Traineeships	5,019	4,847	4,901	4,925	4,673	4,307	4,732	4,811
Research assistantships	3,778	3,754	4,128	4,251	4,104	4,570	4,728	4,958
Teaching assistantships	2,387	2,374	2,665	2,720	2,902	3,010	3,023	2,939
Other types of support	15,948	18,870	20,680	22,803	24,570	25,977	26,723	28,256

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 42. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by detailed field and primary mechanism of support: 1999

Field	Total	Fellowships	Trainee-ships	Research assistant-ships	Teaching assistant-ships	Other types of support
Total, all surveyed fields	309,466	29,545	14,163	88,891	64,241	112,626
Total, science and engineering fields	265,867	26,910	9,352	83,933	61,302	84,370
Sciences, total	199,784	20,896	8,589	55,470	50,747	64,082
Physical sciences, total	26,159	2,174	381	11,162	10,707	1,735
Astronomy	808	118	14	416	217	43
Chemistry	15,615	1,211	258	6,359	6,911	876
Physics	9,556	842	109	4,310	3,568	727
Physical sciences, n.e.c.	180	3	0	77	11	89
Earth, atmos., & ocean sci., total	10,057	924	107	4,142	2,481	2,403
Atmospheric sciences	791	42	1	548	98	102
Geosciences	5,094	561	35	1,758	1,784	956
Oceanography	2,081	180	11	1,198	200	492
Earth, atmos., & ocean sci., n.e.c.	2,091	141	60	638	399	853
Mathematical sciences	11,175	1,022	106	1,209	6,561	2,277
Computer sciences	20,186	974	198	4,732	4,214	10,068
Agricultural sciences	8,668	428	74	5,029	1,114	2,023
Biological sciences, total	45,442	5,785	5,271	18,203	8,242	7,941
Anatomy	871	147	107	280	141	196
Biochemistry	4,797	674	684	2,467	538	434
Biology	8,565	896	428	2,255	3,487	1,499
Biometry/epidemiology	2,604	229	314	679	156	1,226
Biophysics	681	120	178	268	56	59
Botany	1,949	165	60	954	554	216
Cell biology	4,009	749	816	1,781	389	274
Ecology	1,220	192	30	423	420	155
Entomology/parasitology	971	57	13	615	140	146
Genetics	1,620	254	282	776	101	207
Microbio., immunology, & virology	4,542	695	720	2,113	460	554
Nutrition	2,986	123	96	1,297	449	1,021
Pathology	1,351	213	132	531	50	425
Pharmacology	2,551	384	611	1,133	160	263
Physiology	1,876	199	230	705	155	587
Zoology	1,378	148	22	423	665	120
Biosciences, n.e.c.	3,471	540	548	1,503	321	559
Psychology	28,615	2,366	937	4,242	5,647	15,423
Social sciences, total	49,482	7,223	1,515	6,751	11,781	22,212
Agricultural economics	1,686	94	17	889	218	468
Anthropology (cultural & social)	5,611	1,254	78	523	1,357	2,399
Economics (except agricultural)	8,108	1,401	195	973	2,664	2,875
Geography	2,582	172	26	599	955	830
Linguistics	2,107	338	72	184	664	849
Political science	14,752	2,247	756	1,436	2,621	7,692
Sociology	5,862	895	207	934	2,105	1,721
Sociology/anthropology	514	33	2	103	181	195
Social sciences, other	8,260	789	162	1,110	1,016	5,183
Engineering, total	66,083	6,014	763	28,463	10,555	20,288
Aerospace engineering	2,623	290	19	1,224	336	754
Agricultural engineering	767	80	13	449	66	159
Biomedical engineering	2,708	609	172	1,106	294	527
Chemical engineering	5,547	834	65	2,922	958	768
Civil engineering	10,857	833	191	4,083	1,763	3,987
Electrical engineering	19,561	1,359	76	8,328	3,333	6,465
Engineering science	1,027	127	10	494	144	252
Industrial/manufacturing eng.	5,145	242	22	1,400	878	2,603
Mechanical engineering	10,157	870	142	4,588	1,921	2,636
Metallurgical/materials eng.	3,510	337	28	2,258	368	519
Nuclear engineering	641	77	23	389	62	90
Engineering, other	3,540	356	2	1,222	432	1,528
Total, health fields	43,599	2,635	4,811	4,958	2,939	28,256
Clinical fields	2,568	247	555	447	30	1,289
Dental sciences	1,161	103	87	51	186	734
Nursing	8,065	353	2,125	447	355	4,785
Pharmaceutical sciences	2,521	194	93	810	718	706
Preventive medicine/community hlth	6,770	394	550	756	208	4,862
Speech pathology/audiology	7,791	277	459	708	744	5,603
Veterinary sciences	957	68	30	407	64	388
Other health fields	13,766	999	912	1,332	634	9,889

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 43. Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support: 1992-1999

Primary mechanism and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Total, all types:								
Total, all sources	274,343	277,640	276,615	270,610	267,579	263,790	261,477	265,867
Federal, total	57,483	59,646	59,941	58,737	57,278	56,241	55,207	56,717
Dept. of Defense	8,785	9,241	8,982	8,901	8,359	8,604	7,892	7,603
Dept. of HHS, total	16,172	16,718	17,044	17,033	16,829	16,704	16,624	17,145
NIH	14,948	15,766	15,852	15,609	15,423	15,261	15,220	15,913
Other HHS	1,224	952	1,192	1,424	1,406	1,443	1,404	1,232
NASA ¹	N/A	N/A	N/A	N/A	2,232	2,516	2,555	2,485
NSF	13,234	13,338	13,674	13,477	13,281	13,220	13,279	13,674
USDA	3,124	3,229	3,324	3,164	2,922	2,579	2,398	2,550
All other Federal	16,168	17,120	16,917	16,162	13,655	12,618	12,459	13,260
Institutional support	115,887	116,784	116,643	116,229	114,797	114,849	114,384	117,637
Other non-Federal support, total	25,760	24,692	25,075	23,599	23,020	22,745	23,841	23,432
All other U.S.	19,829	19,697	19,859	18,631	18,254	18,444	20,072	19,977
Foreign	5,931	4,995	5,216	4,968	4,766	4,301	3,769	3,455
Self-support	75,213	76,518	74,956	72,045	72,484	69,955	68,045	68,081
Fellowships:								
Total, all sources	26,337	26,741	26,406	26,306	25,955	26,020	26,167	26,910
Federal, total	7,127	6,906	6,266	6,251	6,317	6,166	6,256	6,477
Dept. of Defense	645	624	523	470	507	521	535	483
Dept. of HHS, total	979	1,018	1,040	1,155	1,133	1,217	1,273	1,329
NIH	863	904	909	954	954	991	1,045	1,159
Other HHS	116	114	131	201	179	226	228	170
NASA ¹	N/A	N/A	N/A	N/A	398	354	369	350
NSF	2,342	2,259	2,266	2,311	2,444	2,303	2,330	2,405
USDA	113	113	109	116	101	123	116	122
All other Federal	3,048	2,892	2,328	2,199	1,734	1,648	1,633	1,788
Institutional support	13,129	13,717	13,695	14,053	14,122	14,912	14,957	15,704
Other non-Federal support, total	6,081	6,118	6,445	6,002	5,516	4,942	4,954	4,729
All other U.S.	3,782	3,670	4,038	3,776	3,380	3,101	3,254	3,244
Foreign	2,299	2,448	2,407	2,226	2,136	1,841	1,700	1,485
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Traineeships:								
Total, all sources	9,873	10,106	10,150	10,450	10,198	9,464	9,670	9,352
Federal, total	5,493	5,702	5,779	5,607	5,485	5,108	5,379	5,369
Dept. of Defense	87	91	109	104	124	108	64	51
Dept. of HHS, total	4,376	4,357	4,470	4,341	4,250	3,957	4,215	4,345
NIH	4,095	4,173	4,183	3,984	3,984	3,773	4,037	4,146
Other HHS	281	184	287	357	266	184	178	199
NASA ¹	N/A	N/A	N/A	N/A	65	76	57	51
NSF	104	163	256	333	428	379	408	344
USDA	28	42	36	17	24	23	14	25
All other Federal	898	1,049	908	812	594	565	621	553
Institutional support	3,608	3,540	3,504	4,158	4,157	3,753	3,627	3,358
Other non-Federal support, total	772	864	867	685	556	603	664	625
All other U.S.	565	575	646	490	374	454	531	536
Foreign	207	289	221	195	182	149	133	89
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Research assistantships:								
Total, all sources	82,561	84,547	85,787	83,666	81,609	81,266	81,233	83,933
Federal, total	40,786	42,725	43,481	42,652	41,548	41,205	39,659	40,708
Dept. of Defense	5,698	6,177	6,151	6,225	5,920	6,265	5,740	5,623
Dept. of HHS, total	10,408	10,923	11,181	11,132	10,997	11,052	10,530	10,752
NIH	9,637	10,333	10,466	10,336	10,122	10,104	9,598	10,008
Other HHS	771	590	715	796	875	948	932	744
NASA ¹	N/A	N/A	N/A	N/A	1,726	2,030	2,072	2,040
NSF	10,581	10,683	10,960	10,541	10,184	10,363	10,332	10,691
USDA	2,873	2,948	3,053	2,932	2,697	2,361	2,177	2,286
All other Federal	11,226	11,994	12,136	11,822	10,024	9,134	8,808	9,316
Institutional support	28,829	28,616	29,277	28,819	27,849	27,530	28,408	29,949
Other non-Federal support, total	12,946	13,206	13,029	12,195	12,212	12,531	13,166	13,276
All other U.S.	12,136	12,350	12,266	11,459	11,487	11,791	12,538	12,681
Foreign	810	856	763	736	725	740	628	595
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

See explanatory information, if any, and SOURCE at end of table.

Table 43. Full-time graduate students in science and engineering fields in doctorate-granting institutions, by primary mechanism and primary source of support: 1992-1999

Primary mechanism and primary source of support	1992	1993	1994	1995	1996	1997	1998	1999
Teaching assistantships:								
Total, all sources	61,366	63,061	62,309	61,392	60,975	60,520	60,188	61,302
Federal, total	557	751	655	632	732	754	914	848
Dept. of Defense	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dept. of HHS, total	164	159	130	111	180	156	228	203
NIH	147	154	121	104	176	126	221	196
Other HHS	17	5	9	7	4	30	7	7
NASA ¹	N/A	N/A	N/A	N/A	2	24	23	9
NSF	111	136	105	151	117	80	130	119
USDA	28	45	49	37	41	30	36	60
All other Federal	254	411	371	333	392	464	497	457
Institutional support	60,281	61,743	61,079	60,241	59,637	59,220	58,686	59,806
Other non-Federal support, total	528	567	575	519	606	546	588	648
All other U.S.	528	567	575	519	606	546	588	648
Foreign	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Self-support	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other types of support:								
Total, all sources	94,206	93,185	91,963	88,796	88,842	86,520	84,219	84,370
Federal, total	3,520	3,562	3,760	3,595	3,196	3,008	2,999	3,315
Dept. of Defense	2,355	2,349	2,199	2,102	1,808	1,710	1,553	1,446
Dept. of HHS, total	245	261	223	294	269	322	378	516
NIH	206	202	173	231	187	267	319	404
Other HHS	39	59	50	63	82	55	59	112
NASA ¹	N/A	N/A	N/A	N/A	41	32	34	35
NSF	96	97	87	141	108	95	79	115
USDA	82	81	77	62	59	42	55	57
All other Federal	742	774	1,174	996	911	807	900	1,146
Institutional support	10,040	9,168	9,088	8,958	9,032	9,434	8,706	8,820
Other non-Federal support, total	5,433	3,937	4,159	4,198	4,130	4,123	4,469	4,154
All other U.S.	2,818	2,535	2,334	2,387	2,407	2,552	3,161	2,868
Foreign	2,615	1,402	1,825	1,811	1,723	1,571	1,308	1,286
Self-support	75,213	76,518	74,956	72,045	72,484	69,955	68,045	68,081

¹ Data for NASA were not collected separately prior to 1996.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 44. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by sex, primary source of support, and field: 1999

Primary source of support	Total, all surveyed fields	Sciences								
		Sciences, total	Physical sciences	Earth, atmospheric, & ocean sciences	Mathematical sciences	Computer sciences	Agricultural sciences	Biological sciences	Psychology	Social sciences
Total										
Total, all sources	309,466	199,784	26,159	10,057	11,175	20,186	8,668	45,442	28,615	49,482
Federal, total	64,607	40,930	9,163	2,959	1,101	3,309	1,854	16,391	3,118	3,035
Dept. of Defense	7,951	3,285	882	338	227	1,201	28	327	116	166
Dept. of HHS, total	22,935	16,184	1,827	42	105	107	26	12,200	1,534	343
NIH	18,883	15,069	1,652	22	78	64	15	11,710	1,263	265
Other HHS	4,052	1,115	175	20	27	43	11	490	271	78
NASA	2,500	1,369	544	407	14	110	50	96	15	133
NSF	13,795	8,730	3,270	1,123	441	1,297	106	1,500	301	692
USDA	2,592	2,321	31	53	7	17	1,033	841	13	326
All other Federal	14,834	9,041	2,609	996	307	577	611	1,427	1,139	1,375
Institutional support	127,474	92,822	13,891	4,501	7,987	6,583	3,647	19,701	11,888	24,624
Other non-Federal, total	25,700	14,015	1,912	835	404	1,507	1,548	3,332	1,375	3,102
All other U.S.	21,833	11,640	1,740	673	280	1,373	1,289	2,862	1,320	2,103
Foreign	3,867	2,375	172	162	124	134	259	470	55	999
Self-support	91,685	52,017	1,193	1,762	1,683	8,787	1,619	6,018	12,234	18,721
Men										
Total, all sources	173,589	107,980	18,782	5,957	7,329	14,764	5,103	22,495	8,587	24,963
Federal, total	39,772	24,466	6,840	1,838	811	2,686	1,090	8,435	1,174	1,592
Dept. of Defense	6,484	2,552	710	236	196	1,022	17	170	72	129
Dept. of HHS, total	10,893	8,325	1,214	25	61	85	18	6,252	546	124
NIH	9,761	7,803	1,098	14	41	53	11	6,025	467	94
Other HHS	1,132	522	116	11	20	32	7	227	79	30
NASA	1,851	942	407	253	9	88	34	62	7	82
NSF	9,781	5,839	2,438	680	325	1,028	58	810	127	373
USDA	1,453	1,270	19	29	6	11	615	393	4	193
All other Federal	9,310	5,538	2,052	615	214	452	348	748	418	691
Institutional support	73,073	50,418	9,718	2,591	5,253	4,851	2,070	9,649	3,749	12,537
Other non-Federal, total	17,029	8,358	1,378	539	277	1,158	1,003	1,780	429	1,794
All other U.S.	14,245	6,711	1,244	419	181	1,039	819	1,491	402	1,116
Foreign	2,784	1,647	134	120	96	119	184	289	27	678
Self-support	43,715	24,738	846	989	988	6,069	940	2,631	3,235	9,040
Women										
Total, all sources	135,877	91,804	7,377	4,100	3,846	5,422	3,565	22,947	20,028	24,519
Federal, total	24,835	16,464	2,323	1,121	290	623	764	7,956	1,944	1,443
Dept. of Defense	1,467	733	172	102	31	179	11	157	44	37
Dept. of HHS, total	12,042	7,859	613	17	44	22	8	5,948	988	219
NIH	9,122	7,266	554	8	37	11	4	5,685	796	171
Other HHS	2,920	593	59	9	7	11	4	263	192	48
NASA	649	427	137	154	5	22	16	34	8	51
NSF	4,014	2,891	832	443	116	269	48	690	174	319
USDA	1,139	1,051	12	24	1	6	418	448	9	133
All other Federal	5,524	3,503	557	381	93	125	263	679	721	684
Institutional support	54,401	42,404	4,173	1,910	2,734	1,732	1,577	10,052	8,139	12,087
Other non-Federal, total	8,671	5,657	534	296	127	349	545	1,552	946	1,308
All other U.S.	7,588	4,929	496	254	99	334	470	1,371	918	987
Foreign	1,083	728	38	42	28	15	75	181	28	321
Self-support	47,970	27,279	347	773	695	2,718	679	3,387	8,999	9,681

See explanatory information, if any, and SOURCE at end of table.

Table 44. Full-time graduate students in science, engineering, and health fields in doctorate-granting institutions, by sex, primary source of support, and field: 1999

Primary source of support	Engineering									Health fields
	Engineering, total	Aerospace engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Mechanical engineering	Metallurgical & materials engineering	Other engineering	
	Total									
Total, all sources	66,083	2,623	5,547	10,857	19,561	5,145	10,157	3,510	8,683	43,599
Federal, total	15,787	983	1,654	1,658	4,590	670	2,566	1,333	2,333	7,890
Dept. of Defense	4,318	438	163	150	1,838	234	703	320	472	348
Dept. of HHS, total	961	4	149	44	102	31	112	14	505	5,790
NIH	844	3	127	39	85	18	87	6	479	2,970
Other HHS	117	1	22	5	17	13	25	8	26	2,820
NASA	1,116	257	102	56	274	25	237	60	105	15
NSF	4,944	98	742	543	1,474	211	882	517	477	121
USDA	229	0	25	35	10	2	22	12	123	42
All other Federal	4,219	186	473	830	892	167	610	410	651	1,574
Institutional support	24,815	783	2,281	4,810	6,963	1,852	3,991	1,073	3,062	9,837
Other non-Federal, total	9,417	347	963	1,080	2,810	562	1,573	699	1,383	2,268
All other U.S.	8,337	287	888	927	2,532	475	1,406	633	1,189	1,856
Foreign	1,080	60	75	153	278	87	167	66	194	412
Self-support	16,064	510	649	3,309	5,198	2,061	2,027	405	1,905	23,604
	Men									
Total, all sources	53,035	2,303	4,163	7,888	16,472	4,086	8,918	2,687	6,518	12,574
Federal, total	12,836	885	1,212	1,198	3,930	557	2,251	1,031	1,772	2,470
Dept. of Defense	3,781	407	134	125	1,608	205	642	253	407	151
Dept. of HHS, total	706	4	109	23	81	21	102	11	355	1,862
NIH	616	3	91	23	67	11	78	6	337	1,342
Other HHS	90	1	18	0	14	10	24	5	18	520
NASA	900	223	69	37	229	15	203	41	83	9
NSF	3,877	84	519	390	1,237	175	741	385	346	65
USDA	162	0	14	24	9	2	19	6	88	21
All other Federal	3,410	167	367	599	766	139	544	335	493	362
Institutional support	19,534	646	1,705	3,424	5,796	1,457	3,473	783	2,250	3,121
Other non-Federal, total	7,761	317	751	811	2,413	447	1,379	557	1,086	910
All other U.S.	6,813	260	693	683	2,160	374	1,228	500	915	721
Foreign	948	57	58	128	253	73	151	57	171	189
Self-support	12,904	455	495	2,455	4,333	1,625	1,815	316	1,410	6,073
	Women									
Total, all sources	13,048	320	1,384	2,969	3,089	1,059	1,239	823	2,165	31,025
Federal, total	2,951	98	442	460	660	113	315	302	561	5,420
Dept. of Defense	537	31	29	25	230	29	61	67	65	197
Dept. of HHS, total	255	0	40	21	21	10	10	3	150	3,928
NIH	228	0	36	16	18	7	9	0	142	1,628
Other HHS	27	0	4	5	3	3	1	3	8	2,300
NASA	216	34	33	19	45	10	34	19	22	6
NSF	1,067	14	223	153	237	36	141	132	131	56
USDA	67	0	11	11	1	0	3	6	35	21
All other Federal	809	19	106	231	126	28	66	75	158	1,212
Institutional support	5,281	137	576	1,386	1,167	395	518	290	812	6,716
Other non-Federal, total	1,656	30	212	269	397	115	194	142	297	1,358
All other U.S.	1,524	27	195	244	372	101	178	133	274	1,135
Foreign	132	3	17	25	25	14	16	9	23	223
Self-support	3,160	55	154	854	865	436	212	89	495	17,531

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 45. Full-time graduate science, engineering, and health students with U.S. citizenship and permanent resident status in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	209,329	218,508	223,395	222,755	221,167	217,843	214,835	214,549
Total, science and engineering fields	183,957	190,429	192,460	189,455	186,370	181,424	177,070	175,116
Sciences, total	145,289	150,470	152,627	152,087	150,940	147,607	144,859	143,958
Physical sciences, total	18,434	18,856	18,691	17,953	17,238	16,408	16,155	15,950
Astronomy	621	638	694	646	642	584	581	574
Chemistry	10,545	10,885	10,918	10,660	10,483	10,123	10,008	10,075
Physics	7,173	7,237	6,945	6,507	5,982	5,592	5,470	5,186
Physical sciences, n.e.c.	95	96	134	140	131	109	96	115
Earth, atmos., & ocean sci., total	7,913	8,239	8,129	8,229	7,944	7,791	7,834	7,870
Atmospheric sciences	651	706	731	708	709	684	622	534
Geosciences	4,225	4,304	4,234	4,221	4,104	4,057	3,937	3,994
Oceanography	1,502	1,575	1,602	1,605	1,531	1,455	1,523	1,617
Earth, atmos., & ocean sci., n.e.c.	1,535	1,654	1,562	1,695	1,600	1,595	1,752	1,725
Mathematical sciences	8,516	8,595	8,348	7,811	7,453	6,878	6,638	6,167
Computer sciences	8,104	8,265	8,132	8,007	7,702	7,742	7,991	8,600
Agricultural sciences	6,305	6,323	6,351	6,430	6,347	6,338	6,317	6,529
Biological sciences, total	31,230	32,968	34,663	35,548	35,594	35,103	34,914	35,249
Anatomy	690	702	729	698	767	761	705	682
Biochemistry	3,314	3,409	3,516	3,608	3,527	3,432	3,470	3,408
Biology	6,733	7,011	7,159	7,049	7,051	7,229	6,971	6,926
Biometry/epidemiology	1,147	1,448	1,523	1,593	1,694	1,569	1,953	1,956
Biophysics	479	541	562	602	632	558	545	530
Botany	1,474	1,534	1,607	1,507	1,501	1,439	1,368	1,354
Cell biology	2,302	2,495	2,776	2,943	2,952	2,948	3,011	3,232
Ecology	844	875	1,026	1,122	1,096	1,025	1,046	1,064
Entomology/parasitology	712	718	743	709	742	736	734	693
Genetics	1,148	1,274	1,205	1,232	1,242	1,235	1,212	1,257
Microbio., immunology, & virology	3,306	3,372	3,452	3,538	3,504	3,457	3,519	3,618
Nutrition	1,713	1,735	1,986	2,170	2,295	2,190	2,075	2,105
Pathology	818	927	1,027	1,032	1,022	1,139	1,049	1,068
Pharmacology	1,718	1,889	2,050	2,007	1,950	1,920	1,991	1,999
Physiology	1,528	1,623	1,647	1,867	1,797	1,701	1,573	1,443
Zoology	1,474	1,482	1,440	1,513	1,415	1,330	1,252	1,239
Biosciences, n.e.c.	1,830	1,933	2,215	2,358	2,407	2,434	2,440	2,675
Psychology	26,645	27,219	27,277	27,309	27,646	27,830	27,283	27,011
Social sciences, total	38,142	40,005	41,036	40,800	41,016	39,517	37,727	36,582
Agricultural economics	1,105	1,063	1,092	1,065	979	897	884	878
Anthropology (cultural & social)	4,516	4,661	5,051	5,085	5,280	5,034	4,919	4,918
Economics (except agricultural)	5,153	5,254	5,206	4,885	4,508	3,923	3,786	3,348
Geography	2,150	2,340	2,447	2,350	2,364	2,287	2,187	2,095
Linguistics	1,455	1,555	1,533	1,517	1,577	1,503	1,357	1,278
Political science	13,518	14,290	13,980	13,539	13,300	12,789	12,073	11,596
Sociology	4,845	5,069	5,291	5,401	5,281	5,263	5,035	4,885
Sociology/anthropology	515	541	574	542	525	559	521	451
Social sciences, other	4,885	5,232	5,862	6,416	7,202	7,262	6,965	7,133
Engineering, total	38,668	39,959	39,833	37,368	35,430	33,817	32,211	31,158
Aerospace engineering	2,210	2,144	1,834	1,592	1,402	1,312	1,257	1,270
Agricultural engineering	377	403	438	414	393	397	398	398
Biomedical engineering	1,423	1,544	1,534	1,623	1,657	1,767	1,821	1,915
Chemical engineering	2,931	3,090	3,344	3,284	3,354	3,232	3,022	2,803
Civil engineering	6,708	7,117	7,501	7,271	7,175	6,758	6,540	6,218
Electrical engineering	10,201	10,058	10,031	9,037	8,389	8,192	7,698	7,128
Engineering science	795	822	829	823	628	618	626	561
Industrial/manufacturing eng.	2,970	3,093	3,064	2,732	2,423	2,328	2,132	2,247
Mechanical engineering	6,667	7,103	6,972	6,470	5,927	5,478	5,117	4,923
Metallurgical/materials eng.	2,239	2,253	2,315	2,147	1,956	1,885	1,856	1,668
Nuclear engineering	611	634	618	536	487	434	389	343
Engineering, other	1,536	1,698	1,353	1,439	1,639	1,416	1,355	1,684
Total, health fields	25,372	28,079	30,935	33,300	34,797	36,419	37,765	39,433
Clinical fields	1,502	1,665	1,834	1,919	2,002	2,201	2,168	2,319
Dental sciences	760	767	838	856	835	928	938	926
Nursing	5,501	5,852	6,612	7,046	7,103	7,370	7,140	7,726
Pharmaceutical sciences	1,099	1,174	1,312	1,188	1,166	1,162	1,155	1,474
Preventive medicine/community health	3,914	4,381	4,621	5,131	4,898	4,891	5,670	5,866
Speech pathology/audiology	5,456	6,029	6,429	6,500	6,925	7,158	7,253	7,512
Veterinary sciences	515	459	474	481	459	705	724	699
Other health fields	6,625	7,752	8,815	10,179	11,409	12,004	12,717	12,911

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 46. Full-time graduate science, engineering, and health students without U.S. citizenship and permanent resident status in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	93,976	90,921	87,669	84,691	85,058	86,186	88,260	94,917
Total, science and engineering fields	90,386	87,211	84,155	81,155	81,209	82,366	84,407	90,751
Sciences, total	56,591	55,261	54,251	52,465	52,360	52,108	52,991	55,826
Physical sciences, total	11,694	11,169	10,772	10,336	10,135	9,911	9,754	10,209
Astronomy	219	210	259	225	212	184	206	234
Chemistry	6,147	5,952	5,831	5,691	5,606	5,471	5,422	5,540
Physics	5,295	4,960	4,620	4,366	4,275	4,216	4,082	4,370
Physical sciences, n.e.c.	33	47	62	54	42	40	44	65
Earth, atmos., & ocean sci., total	2,622	2,639	2,822	2,553	2,367	2,196	2,158	2,187
Atmospheric sciences	307	272	250	248	268	280	232	257
Geosciences	1,487	1,504	1,544	1,388	1,292	1,167	1,109	1,100
Oceanography	559	555	661	578	507	469	482	464
Earth, atmos., & ocean sci., n.e.c.	269	308	367	339	300	280	335	366
Mathematical sciences	5,550	5,297	5,198	4,976	4,931	4,713	4,491	5,008
Computer sciences	7,891	7,771	7,467	7,423	8,156	9,019	10,079	11,586
Agricultural sciences	2,804	2,779	2,781	2,726	2,535	2,339	2,212	2,139
Biological sciences, total	11,681	11,819	11,683	11,049	10,433	10,129	10,382	10,193
Anatomy	232	236	218	232	210	207	188	189
Biochemistry	1,716	1,729	1,685	1,583	1,449	1,371	1,401	1,389
Biology	1,775	1,723	1,640	1,616	1,618	1,693	1,724	1,639
Biometry/epidemiology	487	542	533	500	468	436	606	648
Biophysics	249	214	208	198	175	170	162	151
Botany	805	817	738	639	627	610	621	595
Cell biology	697	730	852	797	782	766	786	777
Ecology	132	165	161	154	143	131	133	156
Entomology/parasitology	304	321	323	332	285	259	266	278
Genetics	340	366	348	340	363	385	367	363
Microbio., immunology, & virology	1,139	1,228	1,246	1,128	1,027	951	929	924
Nutrition	1,063	1,183	1,092	1,110	1,007	947	909	881
Pathology	320	337	332	318	317	279	278	283
Pharmacology	682	616	631	532	560	541	559	552
Physiology	632	597	574	509	420	401	417	433
Zoology	294	261	272	228	210	183	166	139
Biosciences, n.e.c.	814	754	830	833	772	799	870	796
Psychology	1,506	1,477	1,661	1,520	1,495	1,526	1,615	1,604
Social sciences, total	12,843	12,310	11,867	11,882	12,308	12,275	12,300	12,900
Agricultural economics	987	882	822	897	802	821	786	808
Anthropology (cultural & social)	715	671	667	577	586	592	630	693
Economics (except agricultural)	4,672	4,529	4,449	4,521	4,732	4,626	4,509	4,760
Geography	417	420	384	391	393	427	481	487
Linguistics	946	892	887	865	856	829	839	829
Political science	2,677	2,657	2,518	2,546	2,840	2,725	2,818	3,156
Sociology	1,246	1,111	1,015	892	898	942	913	977
Sociology/anthropology	97	72	70	75	65	72	87	63
Social sciences, other	1,086	1,076	1,055	1,118	1,136	1,241	1,237	1,127
Engineering, total	33,795	31,950	29,904	28,690	28,849	30,258	31,416	34,925
Aerospace engineering	1,059	1,083	1,133	1,076	1,143	1,193	1,287	1,353
Agricultural engineering	463	432	441	445	406	351	358	369
Biomedical engineering	715	690	712	654	624	644	654	793
Chemical engineering	2,983	2,927	2,725	2,641	2,525	2,504	2,546	2,744
Civil engineering	5,339	4,909	4,710	4,542	4,238	4,244	4,185	4,639
Electrical engineering	10,146	9,706	8,768	8,607	9,053	10,126	11,106	12,433
Engineering science	613	573	514	418	426	398	485	466
Industrial/manufacturing eng.	2,903	2,616	2,665	2,412	2,565	2,607	2,573	2,898
Mechanical engineering	5,457	5,074	4,727	4,519	4,582	4,778	4,783	5,234
Metallurgical/materials eng.	2,016	1,973	1,769	1,717	1,731	1,761	1,821	1,842
Nuclear engineering	473	436	379	347	284	274	273	298
Engineering, other	1,628	1,531	1,361	1,312	1,272	1,378	1,345	1,856
Total, health fields	3,590	3,710	3,514	3,536	3,849	3,820	3,853	4,166
Clinical fields	371	383	356	252	232	209	206	249
Dental sciences	228	236	210	240	281	307	281	235
Nursing	202	227	275	284	242	294	299	339
Pharmaceutical sciences	964	945	863	950	1,048	1,057	1,042	1,047
Preventive medicine/community health	839	865	722	720	788	760	793	904
Speech pathology/audiology	288	300	293	248	258	264	279	279
Veterinary sciences	228	214	205	238	263	267	234	258
Other health fields	470	540	590	604	737	662	719	855

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 47 Graduate students in science and engineering fields in doctorate-granting institutions ranked by 1999 total graduate science and engineering students, 1992-1999

Institutional ranking	1992	1993	1994	1995	1996	1997	1998	1999
Total, all institutions	384,038	388,330	385,121	376,466	370,339	363,188	359,833	364,403
1 University of Michigan	5,069	5,094	5,067	4,890	4,966	4,772	4,652	4,894
2 Stanford University	4,490	4,661	4,495	4,526	4,510	4,322	4,469	4,711
3 University of Minnesota	5,168	5,316	5,072	4,836	4,713	4,487	4,469	4,609
4 University of Southern California	5,399	5,260	4,546	4,272	4,126	4,259	4,333	4,492
5 Texas A&M University	5,250	5,117	4,788	4,526	4,752	4,620	4,567	4,475
6 University of Calif, Berkeley	4,559	4,481	4,430	4,460	4,453	4,345	4,390	4,461
7 Univ of Illinois at Urbana-Champaign	4,929	4,998	4,885	4,920	4,573	4,389	4,301	4,359
8 University of Wisconsin-Madison	5,412	5,466	5,294	5,044	4,698	4,507	4,250	4,356
9 Massachusetts Institute of Technology	4,342	4,382	4,343	4,206	4,168	4,074	4,145	4,304
10 University of Colorado	4,175	4,220	4,009	4,067	4,307	4,222	4,219	4,205
Total, 1st 10 institutions	48,793	48,995	46,929	45,747	45,266	43,997	43,795	44,866
11 University of Washington	3,783	3,748	3,764	3,757	3,639	3,734	3,821	3,875
12 Pennsylvania State University	4,250	4,261	4,223	4,271	4,054	3,951	3,837	3,854
13 University of Maryland at College Park	3,899	3,972	4,008	4,024	4,026	3,880	3,887	3,823
14 University of Florida	3,471	3,583	3,502	3,427	3,400	3,411	3,496	3,780
15 University of California, Los Angeles	3,271	3,448	3,832	3,626	3,551	3,412	3,613	3,731
16 Ohio State University	4,607	4,671	4,420	4,332	4,053	3,764	3,773	3,724
17 George Washington University	4,584	4,517	4,532	4,305	4,150	3,851	3,591	3,702
18 Georgia Institute of Technology	3,548	3,649	3,688	3,540	3,472	3,412	3,572	3,695
19 University of Texas at Austin	4,715	4,722	4,550	4,199	3,529	3,860	3,794	3,679
20 Purdue University	3,916	3,928	3,917	3,782	3,657	3,518	3,487	3,537
Total, 1st 20 institutions	88,837	89,494	87,365	85,010	82,797	80,790	80,666	82,266
21 North Carolina State University	3,230	3,034	3,342	3,405	3,492	3,553	3,425	3,473
22 Cornell University	3,700	3,707	3,683	3,640	3,495	3,225	3,353	3,460
23 Rutgers the State Univ of New Jersey	3,975	3,920	3,867	3,802	3,645	3,441	3,295	3,443
24 Virginia Polytechnic Inst and State Univ	3,326	3,381	3,298	3,506	3,572	3,419	3,201	3,190
25 Arizona State University	3,156	3,154	3,077	3,080	3,084	3,100	3,109	3,090
26 Harvard University	3,253	3,244	3,231	3,185	3,097	3,024	3,016	3,087
27 New York University	2,847	2,833	2,668	2,606	2,886	2,791	2,914	2,939
28 Louisiana State University	2,916	3,036	3,127	3,184	3,133	3,003	2,834	2,917
29 George Mason University	2,218	2,566	2,682	3,101	2,922	2,930	2,872	2,855
30 Michigan State University	3,093	3,171	3,064	3,005	2,981	2,862	2,826	2,820
Total, 1st 30 institutions	120,551	121,540	119,404	117,524	115,104	112,138	111,511	113,540
31 University of Arizona	3,203	3,248	3,227	3,004	2,898	2,851	2,743	2,785
32 University of Massachusetts	2,626	2,675	2,758	2,757	2,697	2,671	2,700	2,779
33 Indiana University	3,413	3,540	3,467	3,441	3,258	2,883	2,707	2,678
34 SUNY at Buffalo	2,882	2,911	2,784	2,679	2,527	2,443	2,449	2,619
35 University of Calif, Davis	2,584	2,554	2,495	2,425	2,473	2,529	2,515	2,587
36 University of Pittsburgh	3,081	3,067	3,119	2,946	2,761	2,693	2,532	2,569
37 Iowa State University	2,817	2,876	2,799	2,676	2,693	2,608	2,478	2,545
38 University of Kansas	2,015	2,027	2,551	2,459	2,826	2,718	2,518	2,514
39 Boston University	2,220	2,376	2,496	2,442	2,446	2,407	2,450	2,419
40 Columbia Univ in the City of New York	2,448	2,397	2,411	2,309	2,442	2,385	2,419	2,333
Total, 1st 40 institutions	147,840	149,211	147,511	144,662	142,125	138,326	137,022	139,368
41 University of Illinois at Chicago	2,404	2,307	2,160	2,088	2,097	2,215	2,208	2,282
42 Wayne State University	2,786	2,925	2,910	2,694	2,420	2,385	2,082	2,277
43 Univ of North Carolina at Chapel Hill	2,350	2,375	2,344	2,282	2,269	2,175	2,166	2,150
44 DePaul University	1,359	1,435	1,460	1,467	1,640	1,743	1,942	2,132
45 Illinois Institute of Technology	1,916	2,079	1,913	1,542	2,138	2,058	1,983	2,110
46 Teachers College, Columbia University	1,533	1,629	1,661	1,741	1,842	1,906	1,998	2,106
47 SUNY at Albany	1,791	1,884	1,760	1,665	2,038	2,056	2,079	2,098
48 SUNY at Stony Brook	2,128	2,131	2,142	2,108	1,953	1,892	1,912	2,022
49 Carnegie Mellon University	1,684	1,664	1,628	1,648	1,700	1,763	1,922	2,000
50 University of Pennsylvania	2,472	2,456	2,360	2,386	2,104	1,929	1,933	1,996
Total, 1st 50 institutions	168,263	170,096	167,849	164,283	162,326	158,448	157,247	160,541
51 University of Chicago	2,075	2,046	2,153	2,070	1,954	1,941	1,918	1,984
52 New Jersey Institute of Technology	1,820	1,742	1,664	1,711	1,705	1,874	1,917	1,943
53 University of Houston	2,969	2,785	1,985	1,844	1,826	1,858	1,826	1,938
54 University of Connecticut	2,186	2,218	2,102	2,081	2,004	1,881	1,826	1,927
55 University of Cincinnati	2,161	2,175	2,233	2,267	2,183	1,945	1,930	1,904
56 University of Tennessee at Knoxville	2,458	2,489	2,489	2,283	2,082	1,937	1,997	1,887
57 American University	2,042	2,305	2,280	2,166	2,034	1,951	1,857	1,857
58 University of Calif, San Diego	1,795	1,798	1,781	1,814	1,812	1,846	1,826	1,857
59 Nova Southeastern University	1,237	1,503	1,778	1,808	1,712	1,710	1,722	1,838
60 Johns Hopkins University	1,377	1,389	1,610	1,645	1,677	1,734	1,835	1,802
Total, 1st 60 institutions	188,383	190,546	187,924	183,972	181,315	177,125	175,901	179,478

See explanatory information, if any, and SOURCE at end of table.

Table 47. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 1999 total graduate science and engineering students: 1992-1999

Institutional ranking	1992	1993	1994	1995	1996	1997	1998	1999
61 University of South Florida	1,710	1,844	1,743	1,744	1,699	1,700	1,655	1,789
62 University of Georgia	1,702	1,781	1,855	1,837	1,798	1,818	1,760	1,758
63 Colorado State University	1,882	1,973	1,956	1,927	1,751	1,770	1,738	1,755
64 Kansas State University	1,618	1,732	1,781	1,777	1,709	1,679	1,669	1,753
65 University of Kentucky	1,754	1,731	1,800	1,791	1,708	1,657	1,575	1,751
66 CUNY Graduate Center	1,795	1,664	1,699	1,573	1,529	2,022	2,022	1,748
67 University of Central Florida	1,352	1,457	1,615	524	1,579	1,510	1,508	1,739
68 University of New Mexico	1,674	1,862	1,817	1,819	1,735	1,607	1,612	1,658
69 Rensselaer Polytechnic Institute	2,040	2,024	1,933	1,694	1,508	1,623	1,557	1,646
70 Oklahoma State University	1,823	1,773	1,747	1,785	1,719	1,718	1,811	1,640
Total, 1st 70 institutions	205,733	208,387	205,870	200,443	198,050	194,229	192,808	196,715
71 Syracuse University	2,042	1,823	1,817	1,518	1,516	1,341	1,591	1,630
72 University of Texas at Arlington	1,936	1,945	1,810	1,609	1,554	1,463	1,407	1,611
73 University of North Texas	1,329	1,308	1,287	1,230	1,205	1,297	1,309	1,608
74 Northeastern University	2,094	2,036	1,973	1,815	1,801	1,741	1,724	1,571
75 University of Calif, Santa Barbara	1,526	1,394	1,439	1,444	1,439	1,412	1,538	1,570
76 University of Nebraska at Lincoln	1,879	1,979	1,982	1,833	1,758	1,624	1,550	1,567
77 Clemson University	1,910	1,830	1,757	1,686	1,658	1,596	1,529	1,562
78 University of Virginia	1,915	1,923	1,878	1,798	1,731	1,669	1,610	1,561
79 University of Oklahoma	2,015	1,953	1,774	1,703	1,732	1,547	1,527	1,558
80 University of Massachusetts Lowell	1,764	1,552	1,679	1,783	1,646	1,515	1,576	1,557
Total, 1st 80 institutions	224,143	226,130	223,266	216,862	214,090	209,434	208,169	212,510
81 University of Utah	1,701	1,695	1,684	1,814	1,690	1,586	1,550	1,550
82 University of Missouri-Columbia	1,821	1,842	1,789	1,743	1,605	1,552	1,454	1,541
83 Northwestern University	1,843	1,799	1,719	1,645	1,638	1,516	1,479	1,515
84 University of Hawaii at Manoa	1,667	1,747	1,843	1,763	1,734	1,598	1,575	1,488
85 Drexel University	1,431	1,400	1,534	1,405	1,425	1,594	1,557	1,479
86 West Virginia University	1,320	1,443	1,409	1,324	1,285	1,414	1,406	1,473
87 San Diego State University	1,499	1,544	1,473	1,148	1,277	1,246	1,237	1,456
88 Oregon State University	1,761	1,904	1,887	1,891	1,796	1,651	1,397	1,439
89 University of Delaware	1,429	1,497	1,505	1,493	1,409	1,377	1,429	1,413
90 Western Michigan University	1,543	1,566	1,548	1,326	1,311	1,417	1,500	1,412
Total, 1st 90 institutions	240,158	242,567	239,657	232,414	229,260	224,385	222,753	227,276
91 University of Iowa	1,726	1,746	1,714	1,687	1,601	1,505	1,437	1,410
92 Virginia Commonwealth University	1,160	1,157	1,139	1,213	1,146	1,022	1,070	1,409
93 Auburn University	1,772	1,887	1,854	1,849	1,687	1,529	1,451	1,399
94 University of California, Irvine	1,445	1,493	1,442	1,392	1,357	1,309	1,319	1,360
95 Duke University	1,335	1,363	1,361	1,337	1,310	1,262	1,318	1,339
96 Southern Illinois Univ at Carbondale	1,305	1,326	1,304	1,282	1,213	1,154	1,246	1,328
97 Princeton University	1,379	1,367	1,298	1,307	1,266	1,240	1,309	1,323
98 Yale University	1,581	1,561	1,549	1,539	1,456	1,312	1,315	1,322
99 Case Western Reserve University	1,439	1,423	1,447	1,422	1,426	1,433	1,349	1,307
100 Florida State University	1,335	1,377	1,402	1,506	1,389	1,306	1,266	1,297
Total, 1st 100 institutions	254,635	257,267	254,167	246,948	243,111	237,457	235,833	240,770
101 California State University, Long Beach	1,883	1,682	1,486	1,428	1,383	1,317	1,351	1,285
102 Long Island University	1,112	1,142	1,041	1,137	1,089	1,069	1,005	1,279
103 Washington University	1,390	1,361	1,339	1,308	1,226	1,196	1,232	1,263
104 University of Arkansas Main	1,027	1,202	1,225	1,321	1,236	1,062	1,195	1,227
105 Old Dominion University	1,077	1,244	1,232	1,237	1,248	1,274	1,281	1,223
106 University of South Carolina	1,590	1,660	1,649	1,604	1,448	1,450	1,325	1,222
107 University of Texas at Dallas	1,002	1,017	946	944	1,033	1,134	1,109	1,221
108 Stevens Institute of Technology	1,335	1,416	1,360	1,305	1,390	1,326	1,163	1,219
109 University of Akron	1,348	1,321	1,320	1,344	1,369	1,361	1,231	1,205
110 Portland State University	1,032	1,026	1,061	1,009	1,026	1,001	1,038	1,203
Total, 1st 110 institutions	267,431	270,338	266,826	259,585	255,559	249,647	247,783	253,117
111 University of Wisconsin-Milwaukee	1,586	1,538	1,484	1,427	1,384	1,327	1,286	1,201
112 Polytechnic University	1,649	1,559	1,438	1,505	1,427	1,372	1,200	1,200
113 University of Idaho	1,063	1,115	1,145	1,081	1,018	1,149	1,208	1,200
114 Texas Tech University	1,541	1,487	1,432	1,343	1,264	1,294	1,325	1,198
115 Utah State University	1,272	1,363	1,370	1,337	1,229	1,143	1,120	1,188
116 University of Louisville	1,132	1,122	1,125	1,099	1,095	963	998	1,183
117 Univ of Puerto Rico Rio Piedras Campus	1,096	1,138	1,129	1,083	1,065	1,086	1,113	1,176
118 Mississippi State University	1,150	1,210	1,165	1,119	1,132	1,149	1,458	1,154
119 Southern Methodist University	950	997	1,031	1,131	1,222	1,260	1,167	1,137
120 Vanderbilt University	970	1,026	1,117	1,137	1,154	1,129	1,121	1,124
Total, 1st 120 institutions	279,840	282,893	279,262	271,847	267,549	261,519	259,759	264,878

See explanatory information, if any, and SOURCE at end of table.

Table 47. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 1999 total graduate science and engineering students: 1992-1999

Institutional ranking	1992	1993	1994	1995	1996	1997	1998	1999
121 Florida International University	783	856	1,036	1,083	1,046	1,041	1,015	1,114
122 SUNY at Binghamton	1,141	1,129	1,132	1,093	1,072	1,093	1,067	1,113
123 Washington State University	1,306	1,359	1,421	1,450	1,391	1,228	1,200	1,104
124 Antioch University	1,617	1,532	1,590	1,474	1,430	1,320	1,083	1,099
125 University of Alabama at Birmingham, The	792	827	815	789	920	1,028	1,101	1,062
126 Georgia State University	1,025	999	1,097	1,102	1,024	1,032	1,004	1,056
127 Brigham Young University	1,016	1,069	1,193	1,154	1,188	1,179	1,059	1,042
128 University of Rochester	1,361	1,372	1,305	1,226	1,146	1,097	1,033	1,026
129 Northern Illinois University	1,025	1,065	1,097	1,109	1,055	1,034	993	1,006
130 New School University	1,164	1,029	1,032	1,008	1,031	1,060	1,000	999
Total, 1st 130 institutions	291,070	294,130	290,980	283,335	278,852	272,631	270,314	275,499
131 California Institute of Technology	1,152	1,131	1,087	1,073	1,022	1,031	982	982
132 Tufts University	1,002	1,050	1,070	1,018	1,073	1,067	995	972
133 University of Alabama, The	934	974	963	985	1,070	1,040	1,000	966
134 Fielding Institute, The	475	513	484	899	905	948	937	964
135 University of Miami	1,189	1,196	1,252	1,172	1,095	1,012	996	958
136 Temple University	1,164	1,241	1,163	1,078	1,264	979	952	957
137 University of Nevada, Reno	922	911	956	963	918	956	966	928
138 University of Illinois at Springfield	725	724	791	924	887	841	780	919
139 New Mexico State University	1,259	1,272	1,212	1,176	1,052	990	963	915
140 University of Toledo	742	754	750	818	963	925	915	913
Total, 1st 140 institutions	300,634	303,896	300,708	293,441	289,101	282,420	279,800	284,973
141 Wichita State University	742	712	705	761	812	865	986	905
142 Fairleigh Dickinson University	1,070	1,020	849	841	871	841	844	901
143 Lehigh University	1,114	1,099	1,085	999	1,072	1,030	987	901
144 Ohio University	970	942	927	921	928	940	896	898
145 Florida Atlantic University	940	1,006	980	929	895	857	810	893
146 University of Rhode Island	1,149	1,148	1,129	1,096	900	800	800	875
147 University of Missouri-Rolla	1,216	1,144	1,021	1,016	914	886	848	857
148 Wright State University	909	864	815	845	873	851	867	854
149 Univ of Maryland - Baltimore County	1,040	1,052	1,035	1,027	964	869	909	851
150 Santa Clara University	1,226	1,144	952	945	927	956	871	846
Total, 1st 150 institutions	311,010	314,027	310,206	302,821	298,257	291,315	288,618	293,754
151 University of Notre Dame	872	868	855	859	873	846	826	834
152 University of Denver	809	831	858	808	768	727	768	825
153 Loyola University of Chicago	633	645	701	794	832	831	793	818
154 Worcester Polytechnic Institute	704	712	711	634	603	596	816	811
155 US Naval Postgraduate School	1,305	1,280	1,195	1,049	927	872	890	795
156 University of Memphis, The	832	885	927	873	757	997	816	783
157 University of Calif, Riverside	757	763	729	795	757	785	739	772
158 Kent State University	830	806	811	849	799	824	786	764
159 University of New Hampshire	669	687	660	689	795	757	737	760
160 University of Alabama in Huntsville, The	939	1,012	926	819	706	697	680	755
Total, 1st 160 institutions	319,360	322,516	318,579	310,990	306,074	299,247	296,469	301,671
161 University of Wyoming	835	877	877	818	761	846	789	755
162 Tulane University	824	860	897	834	829	726	743	746
163 New York Institute of Technology	1,025	997	961	1,013	960	872	819	744
164 Cleveland State University	1,141	1,160	1,151	1,122	758	774	759	735
165 University of Calif, Santa Cruz	671	690	717	732	732	726	734	735
166 Rice University	852	844	811	752	723	737	746	730
167 Southwest Texas State University	626	656	689	703	698	624	643	730
168 Brown University	847	797	766	760	733	717	701	722
169 Florida Institute of Technology	904	828	801	754	756	743	740	721
170 Colorado School of Mines	889	869	851	806	778	765	762	700
Total, 1st 170 institutions	327,974	331,094	327,100	319,284	313,802	306,777	303,905	308,989
171 Oakland University	665	700	706	803	819	841	841	700
172 Univ of Puerto Rico Mayaguez Campus	495	524	520	582	663	727	712	692
173 Pepperdine University	1,040	1,084	1,039	943	806	739	713	682
174 Emory University	595	649	685	719	713	711	707	680
175 Marquette University	596	578	600	556	591	626	707	679
176 Walden University	0	0	0	0	223	310	555	669
177 Calif Sch of Prof Psych - Los Angeles	495	537	541	361	280	725	686	665
178 Yeshiva University	609	561	571	585	579	594	634	665
179 Loyola College	823	861	853	756	745	699	684	654
180 University of Oregon	845	787	778	771	703	675	682	648
Total, 1st 180 institutions	334,137	337,375	333,393	325,360	319,924	313,424	310,826	315,723

See explanatory information, if any, and SOURCE at end of table.

Table 47. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 1999 total graduate science and engineering students: 1992-1999

Institutional ranking	1992	1993	1994	1995	1996	1997	1998	1999
181 University of Texas at El Paso	755	667	660	578	588	579	576	633
182 Claremont Graduate School	573	613	683	659	684	712	655	625
183 Marshall University	198	204	224	250	264	544	723	621
184 Howard University	657	677	761	741	727	698	642	610
185 Pace University	791	845	808	564	829	564	561	605
186 Georgetown University	690	693	744	746	716	722	641	602
187 North Dakota State University	616	590	606	589	584	536	525	594
188 Michigan Technological University	510	554	573	584	555	543	546	589
189 University of Mississippi	661	659	714	700	682	631	599	586
190 Montana State University-Bozeman	559	626	605	594	569	551	569	583
Total, 1st 190 institutions	340,147	343,503	339,771	331,365	326,122	319,504	316,863	321,771
191 University of Nebraska at Omaha	630	631	595	535	526	514	483	580
192 University of Montana, The	588	601	588	593	550	552	583	577
193 Calif Sch of Prof Psych - San Diego	592	643	582	573	618	642	620	573
194 University of Maine	811	783	757	737	666	584	586	572
195 Caribbean Center for Advanced Studies	299	181	203	325	320	319	502	566
196 Univ of Texas Houston Hlth Sci Ctr	495	499	541	560	588	584	566	558
197 University of Dayton	739	804	788	651	635	551	482	541
198 University of Vermont	648	632	629	680	570	538	541	535
199 Seton Hall University	413	430	394	610	577	546	543	531
200 Saint John's University	533	558	556	530	469	455	466	528
Total, 1st 200 institutions	345,895	349,265	345,404	337,159	331,641	324,789	322,235	327,332
201 Northern Arizona University	763	572	587	572	549	517	538	527
202 Miami University (OH)	460	507	518	483	425	434	483	521
203 Ball State University	395	412	436	442	486	482	453	517
204 Rochester Institute of Technology	1,006	896	776	623	621	560	548	503
205 University of Alaska Fairbanks	571	603	627	600	587	571	503	502
206 Illinois State University	550	544	514	549	564	547	547	500
207 Villanova University	938	884	857	758	702	727	607	498
208 Bowling Green State University	591	659	667	708	609	573	492	489
209 Texas Woman's University	518	498	508	503	573	526	521	467
210 University of North Dakota	324	339	335	333	324	324	451	463
Total, 1st 210 institutions	352,011	355,179	351,229	342,730	337,081	330,050	327,378	332,319
211 MCP Hahnemann University	396	409	422	513	482	510	544	462
212 Loma Linda University	150	138	169	194	278	533	470	458
213 Brandeis University	432	465	473	524	565	549	550	455
214 Univ of Louisiana at Lafayette	583	483	466	429	469	438	402	454
215 University of Nevada Las Vegas	421	495	531	567	521	510	495	450
216 Catholic University of America	736	739	672	602	598	518	480	449
217 University of Southern Mississippi	444	462	548	634	604	582	573	437
218 SUNY College of Env Science and Forestry	457	428	415	410	395	400	426	434
219 University of Bridgeport	133	148	135	148	172	298	327	430
220 Saint Louis University	438	453	478	479	475	430	430	426
Total, 1st 220 institutions	356,201	359,399	355,538	347,230	341,640	334,818	332,075	336,774
221 Fordham University	584	633	559	500	472	471	458	424
222 College of William and Mary	431	432	436	450	434	394	401	423
223 University of Missouri-Kansas City	543	490	431	512	470	467	465	422
224 Dartmouth College	381	384	371	363	351	357	308	420
225 University of Missouri-St. Louis	323	310	425	455	438	392	382	420
226 Texas A&M University-Kingsville	415	456	393	408	378	484	381	419
227 Union Institute, The	381	724	673	512	302	274	410	419
228 Boston College	472	475	493	480	495	464	454	416
229 University of Detroit Mercy	620	596	626	607	484	454	441	408
230 North Carolina A&T State University	303	318	404	401	407	386	412	406
Total, 1st 230 institutions	360,654	364,217	360,349	351,918	345,871	338,961	336,187	340,951
231 University of Texas at San Antonio	430	493	508	478	466	483	444	395
232 Air Force Institute of Technology	588	550	481	514	533	504	426	392
233 Central Michigan University	341	324	353	363	422	425	462	391
234 South Dakota State University	485	521	498	499	497	459	421	383
235 Calif Sch of Prof Psych - Fresno	385	393	370	399	411	339	308	374
236 Indiana University of Pennsylvania	158	203	301	333	296	317	321	374
237 Tennessee State University	242	216	327	388	375	382	401	373
238 Sam Houston State University	355	375	386	374	369	315	387	367
239 Univ of North Carolina at Greensboro	351	355	370	305	288	295	339	365
240 Univ of Texas SW Medical Ctr at Dallas	349	361	385	381	379	352	355	364
Total, 1st 240 institutions	364,338	368,008	364,328	355,952	349,907	342,832	340,051	344,729

See explanatory information, if any, and SOURCE at end of table.

Table 47. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 1999 total graduate science and engineering students: 1992-1999

Institutional ranking	1992	1993	1994	1995	1996	1997	1998	1999
241 East Carolina University	343	375	313	333	331	331	405	362
242 Hofstra University	349	342	356	346	335	371	360	357
243 University of South Alabama	362	318	328	326	367	338	336	352
244 California Institute of Integral Studies	362	447	416	450	487	381	360	343
245 Tennessee Technological University	336	314	319	323	307	308	315	342
246 Texas A&M University-Commerce	340	303	245	244	244	278	310	339
247 Lamar University	457	397	349	295	290	294	280	335
248 Azusa Pacific University	189	234	288	206	363	387	392	334
249 Fuller Theological Seminary	352	373	381	416	408	396	369	334
250 Baylor College of Medicine	262	279	273	285	284	302	317	333
Total, 1st 250 institutions	367,690	371,390	367,596	359,176	353,323	346,218	343,495	348,160
251 Duquesne University	261	280	382	335	393	337	341	327
252 Indiana State University	307	330	343	345	346	369	312	320
253 University of La Verne	176	202	118	154	130	204	188	320
254 Golden Gate University	215	157	331	476	381	488	389	318
255 University of Calif, San Francisco	299	315	352	330	338	330	362	315
256 University of Tulsa	321	339	346	350	310	300	312	307
257 US International University	468	473	419	378	378	409	300	304
258 Adelphi University	387	317	271	248	287	318	228	296
259 Pacific Graduate School of Psychology	373	348	351	314	349	299	285	296
260 Wright Institute	208	221	242	253	248	245	293	292
Total, 1st 260 institutions	370,705	374,372	370,751	362,359	356,483	349,517	346,505	351,255
261 Thomas Jefferson University	212	224	249	297	307	281	260	289
262 East Tennessee State University	267	311	304	321	325	392	268	287
263 Jackson State University	263	304	332	328	322	324	313	287
264 Clark University	273	266	261	351	320	269	277	281
265 University of Maryland, Baltimore	360	320	324	285	315	333	349	281
266 Middle Tennessee State University	580	596	557	435	441	323	287	271
267 Stephen F. Austin State University	231	230	260	243	247	271	254	271
268 Baylor University	337	352	363	337	332	298	282	268
269 Wake Forest University	231	245	290	272	276	275	245	267
270 CUNY Hunter College	414	383	378	374	203	186	206	262
Total, 1st 270 institutions	373,873	377,603	374,069	365,602	359,571	352,469	349,246	354,019
271 Idaho State University	291	364	374	377	325	277	266	258
272 University of Massachusetts Dartmouth	152	146	196	187	172	245	264	258
273 Clark Atlanta University	387	386	418	382	374	347	299	256
274 James Madison University	113	120	97	103	104	166	212	254
275 New Mexico Institute of Mining and Tech	260	255	232	222	233	224	232	251
276 Louisiana Tech University	364	386	345	303	306	327	280	249
277 CA School Prof Psychology-Alameda	528	508	455	428	370	286	262	246
278 Forest Institute of Professional Psych	185	169	162	148	166	181	224	246
279 Univ of Med and Dentistry of New Jersey	188	204	225	206	197	198	214	241
280 Medical University of South Carolina	173	192	193	237	238	235	225	238
Total, 1st 280 institutions	376,514	380,333	376,766	368,195	362,056	354,955	351,724	356,516
281 Finch U of Hlth Sci/The Chicago Med Sch	130	137	133	269	288	277	253	237
282 Oregon Grad Inst of Science & Technology	291	320	318	287	205	301	279	235
283 Florida A&M University	130	177	229	268	251	243	218	231
284 University of Hartford	239	288	271	272	288	249	295	225
285 University of Northern Colorado	224	231	216	166	180	181	192	208
286 Chicago School of Prof Psych	139	148	159	169	180	183	199	205
287 South Dakota School of Mines and Tech	248	219	194	208	196	183	205	205
288 University of South Dakota	219	207	207	221	225	209	203	203
289 Clarkson University	279	287	254	239	226	216	180	197
290 University of Arkansas at Little Rock	171	261	255	228	230	230	192	197
Total, 1st 290 institutions	378,584	382,608	379,002	370,522	364,325	357,227	353,940	358,659
291 Philadelphia Col of Osteopathic Med	0	0	0	85	120	157	188	196
292 Mt. Sinai School of Medicine	156	170	169	174	178	183	192	190
293 Univ of Texas at San Antonio Hlth Sci Ct	157	163	168	169	182	189	190	186
294 University of Tennessee, Memphis	131	150	157	156	134	158	181	180
295 Slippery Rock University of Pennsylvania	177	191	123	123	168	158	189	179
296 Mercer University	154	147	147	154	147	167	161	171
297 New York Medical College	179	199	241	239	238	188	174	167
298 Medical College of Wisconsin	120	119	126	125	117	144	199	166
299 Arkansas State University	291	257	265	264	260	262	314	158
300 American International College	169	123	123	124	122	184	184	157
Total, 1st 300 institutions	380,118	384,127	380,521	372,135	365,991	359,017	355,912	360,409

See explanatory information, if any, and SOURCE at end of table.

Table 47. Graduate students in science and engineering fields in doctorate-granting institutions, ranked by 1999 total graduate science and engineering students: 1992-1999

Institutional ranking	1992	1993	1994	1995	1996	1997	1998	1999
301 Univ of Texas Med Branch at Galveston	139	145	158	152	140	160	148	150
302 Spalding University	112	91	115	117	125	137	137	143
303 Mayo Graduate School	116	120	114	136	133	141	142	139
304 Univ of Louisiana at Monroe, The	108	118	147	119	172	181	157	138
305 Oregon Health Sciences University	120	126	138	143	135	123	136	137
306 University of Arkansas - Med Sci Campus	75	104	113	124	138	131	145	136
307 Alfred University	124	144	174	154	170	129	130	134
308 University of Northern Iowa	74	92	154	173	168	155	118	134
309 University of Puerto Rico Med Sci Campus	89	132	128	144	135	96	110	133
310 University of San Diego	38	47	58	56	51	51	73	133
Total, 1st 310 institutions	381,113	385,246	381,820	373,453	367,358	360,321	357,208	361,786
311 Hampton University	83	90	129	123	98	76	118	129
312 Eastern Virginia Medical School	126	138	156	155	136	139	130	127
313 Meharry Medical College	60	69	144	140	139	131	125	125
314 Woods Hole Oceanographic Institution	113	112	120	115	137	137	134	125
315 Texas Christian University	140	149	146	153	142	136	122	113
316 Wesleyan University	132	139	143	120	120	119	117	112
317 Medical College of Georgia	84	88	96	93	100	101	98	109
318 The Rockefeller University	134	136	132	125	93	105	110	109
319 Creighton University	77	93	53	120	129	93	98	108
320 Andrews University	163	157	139	133	144	111	98	101
Total, 1st 320 institutions	382,225	386,417	383,078	374,730	368,596	361,469	358,358	362,944
321 University of Maryland Eastern Shore	115	90	104	89	98	113	123	97
322 Bryn Mawr College	123	120	111	115	114	108	97	95
323 Medical College of Ohio	0	52	227	148	155	112	94	94
324 Rush University	98	103	100	100	77	75	85	94
325 Widener University, All Campuses	143	148	152	145	132	106	88	84
326 Maharishi University of Management	64	51	48	33	35	48	78	81
327 University of Nebraska Medical Center	69	76	81	84	87	86	78	78
328 SUNY Upstate Medical University	64	72	71	65	68	68	72	77
329 Albany Medical College	88	96	95	102	93	96	80	76
330 Institute of Paper Science & Technology	73	77	79	83	76	68	74	75
Total, 1st 330 institutions	383,062	387,302	384,146	375,694	369,531	362,349	359,227	363,795
331 Alabama A&M University	268	312	272	202	194	250	134	69
332 SUNY Health Science Center at Brooklyn	119	104	94	82	76	78	66	63
333 Uniformed Serv Univ of the Hlth Sciences	71	66	57	58	55	63	62	61
334 RAND Graduate School of Policy Studies	55	61	55	56	52	49	54	57
335 CUNY Herbert H. Lehman College	53	65	72	41	70	52	57	56
336 Texas A&M U Sys Health Science Center	0	0	0	0	0	0	0	56
337 University of the Pacific	51	48	54	51	55	50	49	50
338 Biola University	156	155	149	146	174	167	48	46
339 Philadelphia Coll of Pharmacy and Sci	31	33	29	30	26	21	29	34
340 Mass College of Pharmacy/Allied Health	24	20	20	20	20	23	23	25
Total, 1st 340 institutions	383,890	388,166	384,948	376,380	370,253	363,102	359,749	364,312
341 Institute of Textile Technology	28	34	29	25	27	28	27	22
342 Ponce School of Medicine	13	14	12	16	13	17	17	17
343 Pontifical Cath Univ of Puerto Rico, The	0	15	20	20	10	11	10	17
344 Baylor College of Dentistry	7	9	7	9	7	7	10	16
345 Morehouse School of Medicine	4	9	21	12	22	16	16	15
346 Smith College	8	7	4	4	7	7	4	4
347 Charles R. Drew Univ of Medicine & Sci	0	0	0	0	0	0	0	0
348 Des Moines Univ-Osteopathic Med Ctr	0	0	0	0	0	0	0	0
349 Emerson College	0	0	0	0	0	0	0	0
350 Kirksville College of Osteopathic Med	0	0	0	0	0	0	0	0
Total, 1st 350 institutions	383,950	388,254	385,041	376,466	370,339	363,188	359,833	364,403
351 Medical College of Pennsylvania, The	85	73	80	0	0	0	0	0
352 Midwestern University	0	0	0	0	0	0	0	0
353 Oral Roberts University	0	0	0	0	0	0	0	0
354 Pacific University	0	0	0	0	0	0	0	0
355 SUNY College of Optometry	0	0	0	0	0	0	0	0
356 U of North TX Hlth Sci Ctr at Ft Worth	0	0	0	0	0	0	0	0
357 Univ of Texas M.D. Anderson Cancer Ctr	0	0	0	0	0	0	0	0
358 University of New England	3	3	0	0	0	0	0	0
359 Xavier University of Louisiana	0	0	0	0	0	0	0	0
Total, 1st 359 institutions	384,038	388,330	385,121	376,466	370,339	363,188	359,833	364,403

NOTES: Includes medical schools

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 48. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	32,685	34,257	36,293	35,838	37,038	38,105	39,421	40,244
Total, science and engineering fields	23,840	24,615	25,742	26,100	26,529	26,908	27,399	28,564
Sciences, total	21,486	22,178	23,148	23,465	23,859	23,961	24,577	25,408
Physical sciences, total	5,758	5,640	5,849	5,817	5,792	5,856	5,884	6,043
Astronomy	206	219	246	276	312	317	357	372
Chemistry	3,564	3,555	3,710	3,625	3,557	3,695	3,683	3,774
Physics	1,949	1,827	1,849	1,820	1,837	1,745	1,805	1,813
Physical sciences, n.e.c.	39	39	44	96	86	99	39	84
Earth, atmos., & ocean sci., total	690	762	815	845	859	934	893	919
Atmospheric sciences	64	81	89	88	80	98	85	107
Geosciences	399	423	435	440	449	486	459	473
Oceanography	186	204	237	258	244	258	249	235
Earth, atmos., & ocean sci., n.e.c.	41	54	54	59	86	92	100	104
Mathematical sciences	201	224	239	262	326	302	274	348
Computer sciences	144	164	183	213	249	316	365	326
Agricultural sciences	630	698	705	688	665	692	656	708
Biological sciences, total	13,179	13,792	14,421	14,687	14,935	14,932	15,511	15,910
Anatomy	469	440	480	478	506	548	539	584
Biochemistry	2,157	2,368	2,379	2,421	2,477	2,539	2,532	2,485
Biology	1,476	1,460	1,576	1,601	1,633	1,537	1,725	1,833
Biometry/epidemiology	122	131	128	153	153	159	155	166
Biophysics	176	176	184	230	252	240	239	266
Botany	492	511	590	630	599	596	581	597
Cell biology	1,335	1,463	1,672	1,792	1,756	1,749	2,008	2,037
Ecology	60	65	88	95	107	130	107	117
Entomology/parasitology	223	223	190	179	183	216	181	178
Genetics	671	665	661	752	719	708	707	770
Microbio., immunology, & virology	1,784	1,881	1,924	1,943	1,975	2,019	2,109	2,165
Nutrition	196	210	192	186	198	209	234	238
Pathology	1,170	1,202	1,256	1,188	1,220	1,359	1,297	1,291
Pharmacology	1,292	1,334	1,379	1,404	1,424	1,342	1,437	1,481
Physiology	1,139	1,150	1,109	1,026	1,089	1,118	1,138	1,132
Zoology	165	174	171	164	135	108	140	154
Biosciences, n.e.c.	252	339	442	445	509	355	382	416
Psychology	523	520	546	577	589	567	606	703
Social sciences, total	361	378	390	376	444	362	388	451
Agricultural economics	49	46	45	39	56	50	38	43
Anthropology (cultural & social)	59	52	57	67	74	59	61	87
Economics (except agricultural)	22	38	46	27	16	19	29	31
Geography	22	28	26	16	22	12	18	30
Linguistics	26	29	20	16	36	19	18	14
Political science	50	35	44	36	35	32	62	68
Sociology	72	72	78	91	127	102	79	104
Sociology/anthropology	3	5	4	0	0	0	0	0
Social sciences, other	58	73	70	84	78	69	83	74
Engineering, total	2,354	2,437	2,594	2,635	2,670	2,947	2,822	3,156
Aerospace engineering	92	116	100	101	109	125	133	128
Agricultural engineering	37	39	45	46	48	58	56	62
Biomedical engineering	81	85	141	134	143	158	180	242
Chemical engineering	535	526	521	569	542	628	603	657
Civil engineering	187	181	210	201	230	240	217	291
Electrical engineering	314	384	409	380	395	506	484	542
Engineering science	71	78	95	101	93	115	110	122
Industrial/manufacturing eng.	38	63	53	29	29	28	30	27
Mechanical engineering	351	357	385	406	421	435	429	470
Metallurgical/materials eng.	450	403	441	490	496	464	404	419
Nuclear engineering	34	40	39	28	28	33	19	30
Engineering, other	164	165	155	150	136	157	157	166
Total, health fields	8,845	9,642	10,551	9,738	10,509	11,197	12,022	11,680
Clinical fields	7,065	7,614	8,329	7,428	8,019	8,538	9,314	9,020
Dental sciences	75	102	195	227	172	172	166	175
Nursing	28	40	48	43	23	38	43	49
Pharmaceutical sciences	480	527	571	501	503	504	511	435
Preventive medicine/community health	231	248	264	291	307	344	316	347
Speech pathology/audiology	47	49	40	53	46	36	57	62
Veterinary sciences	117	133	138	159	190	217	216	241
Other health fields	802	929	966	1,036	1,249	1,348	1,399	1,351

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 49. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field and source of support and citizenship: 1999

Field	Total	Source of support					Citizenship	
		Federal				Non-Federal	U.S. citizens and permanent residents	Temporary visa holders
		Total	Fellowships	Traineeships	Research grants			
Total, all surveyed fields	40,244	27,887	3,775	2,632	21,480	12,357	18,604	21,640
Total, science and engineering fields	28,564	20,909	2,233	1,320	17,356	7,655	12,509	16,055
Sciences, total	25,408	18,672	2,110	1,297	15,265	6,736	11,510	13,898
Physical sciences, total	6,043	4,634	371	56	4,207	1,409	2,200	3,843
Astronomy	372	343	52	3	288	29	202	170
Chemistry	3,774	2,705	252	43	2,410	1,069	1,343	2,431
Physics	1,813	1,517	67	9	1,441	296	617	1,196
Physical sciences, n.e.c.	84	69	0	1	68	15	38	46
Earth, atmos., & ocean sci., total	919	770	93	0	677	149	531	388
Atmospheric sciences	107	102	0	0	102	5	77	30
Geosciences	473	385	47	0	338	88	254	219
Oceanography	235	195	44	0	151	40	133	102
Earth, atmos., & ocean sci., n.e.c.	104	88	2	0	86	16	67	37
Mathematical sciences	348	191	37	6	148	157	151	197
Computer sciences	326	234	35	1	198	92	141	185
Agricultural sciences	708	427	16	0	411	281	362	346
Biological sciences, total	15,910	11,692	1,437	1,074	9,181	4,218	7,256	8,654
Anatomy	584	434	64	41	329	150	269	315
Biochemistry	2,485	1,921	195	106	1,620	564	1,074	1,411
Biology	1,833	1,395	237	82	1,076	438	893	940
Biometry/epidemiology	166	128	13	80	35	38	117	49
Biophysics	266	199	22	12	165	67	131	135
Botany	597	408	42	0	366	189	232	365
Cell biology	2,037	1,403	246	69	1,088	634	957	1,080
Ecology	117	74	10	0	64	43	74	43
Entomology/parasitology	178	121	2	1	118	57	77	101
Genetics	770	496	68	50	378	274	356	414
Microbio., immunology, & virology	2,165	1,636	160	194	1,282	529	1,012	1,153
Nutrition	238	140	11	16	113	98	104	134
Pathology	1,291	825	109	149	567	466	572	719
Pharmacology	1,481	1,199	107	148	944	282	639	842
Physiology	1,132	900	92	102	706	232	481	651
Zoology	154	94	24	1	69	60	119	35
Biosciences, n.e.c.	416	319	35	23	261	97	149	267
Psychology	703	506	81	133	292	197	525	178
Social sciences, total	451	218	40	27	151	233	344	107
Agricultural economics	43	31	2	2	27	12	23	20
Anthropology (cultural & social)	87	32	6	1	25	55	74	13
Economics (except agricultural)	31	3	0	0	3	28	28	3
Geography	30	25	0	0	25	5	16	14
Linguistics	14	9	3	1	5	5	13	1
Political science	68	12	5	0	7	56	47	21
Sociology	104	54	5	19	30	50	89	15
Sociology/anthropology	0	0	0	0	0	0	0	0
Social sciences, other	74	52	19	4	29	22	54	20
Engineering, total	3,156	2,237	123	23	2,091	919	999	2,157
Aerospace engineering	128	90	3	0	87	38	34	94
Agricultural engineering	62	38	0	1	37	24	20	42
Biomedical engineering	242	183	18	12	153	59	108	134
Chemical engineering	657	445	32	4	409	212	192	465
Civil engineering	291	157	11	0	146	134	98	193
Electrical engineering	542	405	20	1	384	137	159	383
Engineering science	122	106	5	0	101	16	44	78
Industrial eng./manufacturing eng.	27	19	2	0	17	8	16	11
Mechanical engineering	470	342	10	2	330	128	154	316
Metallurgical/materials eng.	419	294	19	3	272	125	105	314
Nuclear engineering	30	27	0	0	27	3	12	18
Engineering, other	166	131	3	0	128	35	57	109

See explanatory information, if any, and SOURCE at end of table.

Table 49. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions, by detailed field and source of support and citizenship: 1999

Field	Total	Source of support					Citizenship	
		Federal				Non-Federal	U.S. citizens and permanent residents	Temporary visa holders
		Total	Fellowships	Traineeships	Research grants			
Total, health fields	11,680	6,978	1,542	1,312	4,124	4,702	6,095	5,585
Clinical fields	9,020	5,293	1,322	1,032	2,939	3,727	4,703	4,317
Dental sciences	175	107	7	37	63	68	86	89
Nursing	49	34	8	15	11	15	42	7
Pharmaceutical sciences	435	272	22	6	244	163	170	265
Preventive medicine/community health	347	264	27	50	187	83	208	139
Speech pathology/audiology	62	49	4	10	35	13	40	22
Veterinary sciences	241	119	21	10	88	122	149	92
Other health fields	1,351	840	131	152	557	511	697	654

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 50. Nonfaculty research scientists, engineers, and health professionals with doctorates in doctorate-granting institutions, by detailed field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all surveyed fields	5,464	5,993	6,208	6,517	6,594	6,670	7,037	7,551
Total, science and engineering fields	4,381	4,800	4,988	5,177	5,150	5,209	5,255	5,680
Sciences, total	3,644	3,997	4,163	4,388	4,420	4,361	4,445	4,740
Physical sciences, total	1,066	1,223	1,244	1,374	1,287	1,203	1,080	1,152
Astronomy	70	100	151	158	154	144	122	142
Chemistry	472	538	522	538	547	503	481	493
Physics	523	584	569	658	568	554	473	498
Physical sciences, n.e.c.	1	1	2	20	18	2	4	19
Earth, atmos., & ocean sci., total	302	340	363	418	430	427	411	436
Atmospheric sciences	21	40	27	21	46	76	48	41
Geosciences	153	138	198	218	190	147	154	175
Oceanography	114	132	118	152	167	163	172	169
Earth, atmos., & ocean sci., n.e.c.	14	30	20	27	27	41	37	51
Mathematical sciences	70	52	72	93	88	92	88	122
Computer sciences	42	67	48	66	107	87	124	133
Agricultural sciences	189	170	251	228	209	203	155	156
Biological sciences, total	1,691	1,844	1,854	1,959	1,905	1,971	2,225	2,354
Anatomy	39	51	38	47	58	55	40	88
Biochemistry	284	294	270	337	323	331	330	364
Biology	265	324	325	324	315	294	390	266
Biometry/epidemiology	26	36	37	32	26	24	33	40
Biophysics	38	49	54	58	44	54	41	37
Botany	79	97	86	88	66	62	76	90
Cell biology	158	202	177	211	195	198	221	229
Ecology	19	21	14	21	18	20	13	19
Entomology/parasitology	64	74	59	60	51	55	53	60
Genetics	53	67	63	65	79	121	77	83
Microbio., immunology, & virology	159	155	206	187	195	231	216	266
Nutrition	60	56	81	63	56	54	43	59
Pathology	123	114	145	132	136	114	135	149
Pharmacology	116	142	128	170	164	151	288	329
Physiology	136	99	103	115	119	147	167	182
Zoology	30	20	29	16	13	15	18	25
Biosciences, n.e.c.	42	43	39	33	47	45	84	68
Psychology	152	171	203	146	232	200	225	223
Social sciences, total	132	130	128	104	162	178	137	164
Agricultural economics	12	14	15	12	17	27	31	34
Anthropology (cultural & social)	35	43	48	34	34	13	11	18
Economics (except agricultural)	6	3	3	9	16	6	3	7
Geography	6	6	9	4	11	17	14	16
Linguistics	9	5	8	2	4	11	5	7
Political science	7	3	2	6	15	10	3	9
Sociology	24	16	9	11	15	34	27	29
Sociology/anthropology	0	0	0	0	3	5	4	4
Social sciences, other	33	40	34	26	47	55	39	40
Engineering, total	737	803	825	789	730	848	810	940
Aerospace engineering	39	69	66	80	86	84	68	87
Agricultural engineering	10	5	23	27	15	19	28	28
Biomedical engineering	26	26	36	26	21	31	34	58
Chemical engineering	148	126	87	70	82	159	149	141
Civil engineering	52	67	54	66	69	66	61	81
Electrical engineering	123	135	159	175	144	168	152	169
Engineering science	16	34	30	37	38	50	49	60
Industrial/manufacturing eng.	17	7	6	3	2	7	5	5
Mechanical engineering	97	116	135	108	108	109	109	127
Metallurgical/materials eng.	131	142	139	120	95	83	120	115
Nuclear engineering	37	27	36	32	29	28	4	11
Engineering, other	41	49	54	45	41	44	31	58
Total, health fields	1,083	1,193	1,220	1,340	1,444	1,461	1,782	1,871
Clinical fields	717	718	786	898	947	972	1,234	1,282
Dental sciences	20	27	11	12	14	51	45	37
Nursing	9	5	8	7	15	16	12	2
Pharmaceutical sciences	81	115	101	117	99	97	98	114
Preventive medicine/community health	65	95	105	90	118	79	102	115
Speech pathology/audiology	7	13	12	20	14	13	26	13
Veterinary sciences	47	45	58	53	67	61	68	71
Other health fields	137	175	139	143	170	172	197	237

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 51. Graduate students in science, engineering, and health fields in Historically Black Colleges and Universities (HBCUs), by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all surveyed fields	5,660	3,744	14	193	53	911	101	644
Total, science and engineering fields	4,745	3,233	5	166	41	581	95	624
Sciences, total	4,185	2,939	5	133	34	537	66	471
Physical sciences, total	297	179	0	20	6	22	2	68
Astronomy	0	0	0	0	0	0	0	0
Chemistry	181	109	0	14	5	8	1	44
Physics	116	70	0	6	1	14	1	24
Physical sciences, n.e.c.	0	0	0	0	0	0	0	0
Earth, atmos., & ocean sci., total	61	36	1	3	1	19	0	1
Atmospheric sciences	0	0	0	0	0	0	0	0
Geosciences	0	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0	0
Earth, atmos., & ocean sci., n.e.c.	61	36	1	3	1	19	0	1
Mathematical sciences	158	129	0	1	2	20	0	6
Computer sciences	450	216	1	64	2	39	29	99
Agricultural sciences	213	155	0	3	3	31	14	7
Biological sciences, total	682	572	2	19	4	34	4	47
Anatomy	3	1	0	0	0	1	0	1
Biochemistry	20	17	0	1	0	0	0	2
Biology	351	308	0	6	2	17	0	18
Biometry/epidemiology	0	0	0	0	0	0	0	0
Biophysics	0	0	0	0	0	0	0	0
Botany	26	26	0	0	0	0	0	0
Cell biology	0	0	0	0	0	0	0	0
Ecology	0	0	0	0	0	0	0	0
Entomology/parasitology	0	0	0	0	0	0	0	0
Genetics	26	15	0	1	1	4	0	5
Microbio., immunology, & virology	47	38	2	4	0	2	0	1
Nutrition	79	60	0	2	0	5	0	12
Pathology	0	0	0	0	0	0	0	0
Pharmacology	55	46	0	1	1	1	4	2
Physiology	31	25	0	1	0	1	0	4
Zoology	0	0	0	0	0	0	0	0
Biosciences, n.e.c.	44	36	0	3	0	3	0	2
Psychology	746	451	0	11	11	231	3	39
Social sciences, total	1,578	1,201	1	12	5	141	14	204
Agricultural economics	27	21	0	1	0	3	0	2
Anthropology (cultural & social)	0	0	0	0	0	0	0	0
Economics (except agricultural)	45	20	0	2	1	0	0	22
Geography	0	0	0	0	0	0	0	0
Linguistics	0	0	0	0	0	0	0	0
Political science	782	671	0	7	1	68	7	28
Sociology	209	187	1	1	1	13	0	6
Sociology/anthropology	68	51	0	0	0	3	1	13
Social sciences, other	447	251	0	1	2	54	6	133
Engineering, total	560	294	0	33	7	44	29	153
Aerospace engineering	0	0	0	0	0	0	0	0
Agricultural engineering	0	0	0	0	0	0	0	0
Biomedical engineering	0	0	0	0	0	0	0	0
Chemical engineering	27	11	0	0	0	2	0	14
Civil engineering	87	50	0	7	3	12	13	2
Electrical engineering	116	58	0	8	1	2	3	44
Engineering science	0	0	0	0	0	0	0	0
Industrial/manufacturing eng.	42	30	0	4	2	6	0	0
Mechanical engineering	99	55	0	1	0	7	0	36
Metallurgical/materials eng.	10	8	0	0	0	0	0	2
Nuclear engineering	0	0	0	0	0	0	0	0
Engineering, other	179	82	0	13	1	15	13	55

See explanatory information, if any, and SOURCE at end of table.

Table 51. Graduate students in science, engineering, and health fields in Historically Black Colleges and Universities (HBCUs), by detailed field, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Field	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, health fields	915	511	9	27	12	330	6	20
Clinical fields	107	12	1	0	1	93	0	0
Dental sciences	0	0	0	0	0	0	0	0
Nursing	163	116	1	1	0	42	0	3
Pharmaceutical sciences	146	105	0	20	4	13	3	1
Preventive medicine/community hith	44	41	0	0	0	3	0	0
Speech pathology/audiology	329	176	7	2	4	125	2	13
Veterinary sciences	22	17	0	1	0	1	0	3
Other health fields	104	44	0	3	3	53	1	0

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 52. Graduate students in science and engineering fields in Historically Black Colleges and Universities (HBCUs), by geographic distribution, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Geographic distribution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Total, all institutions	4,745	3,233	5	166	41	581	95	624
New England	0	0	0	0	0	0	0	0
Connecticut	0	0	0	0	0	0	0	0
Maine	0	0	0	0	0	0	0	0
Massachusetts	0	0	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0	0	0
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	0	0	0	0	0	0
New Jersey	0	0	0	0	0	0	0	0
New York	0	0	0	0	0	0	0	0
Pennsylvania	0	0	0	0	0	0	0	0
East North Central	0	0	0	0	0	0	0	0
Illinois	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0
Michigan	0	0	0	0	0	0	0	0
Ohio	0	0	0	0	0	0	0	0
Wisconsin	0	0	0	0	0	0	0	0
West North Central	35	16	0	0	0	13	0	6
Iowa	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0
Minnesota	0	0	0	0	0	0	0	0
Missouri	35	16	0	0	0	13	0	6
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0
South Atlantic	2,376	1,682	4	107	25	217	50	291
Delaware	28	7	0	2	0	12	0	7
District of Columbia	620	475	2	12	3	20	11	97
Florida	231	166	0	15	7	18	25	0
Georgia	271	220	0	8	7	7	5	24
Maryland	273	149	0	5	1	63	0	55
North Carolina	757	532	2	54	5	84	9	71
South Carolina	0	0	0	0	0	0	0	0
Virginia	196	133	0	11	2	13	0	37
West Virginia	0	0	0	0	0	0	0	0
East South Central	1,038	632	1	36	4	164	27	174
Alabama	210	136	0	3	0	4	5	62
Kentucky	0	0	0	0	0	0	0	0
Mississippi	287	193	1	13	1	30	0	49
Tennessee	541	303	0	20	3	130	22	63
West South Central	1,296	903	0	23	12	187	18	153
Arkansas	0	0	0	0	0	0	0	0
Louisiana	598	447	0	5	0	126	13	7
Oklahoma	0	0	0	0	0	0	0	0
Texas	698	456	0	18	12	61	5	146

See explanatory information, if any, and SOURCE at end of table.

Table 52. Graduate students in science and engineering fields in Historically Black Colleges and Universities (HBCUs), by geographic distribution, citizenship, and racial/ethnic background of U.S. citizens and permanent residents: 1999

Geographic distribution	Total	U.S. citizens and permanent residents						Students with temporary visas
		Black non-Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	Hispanic	White non-Hispanic	Other or unknown	
Mountain	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0	0
Pacific	0	0	0	0	0	0	0	0
Alaska	0	0	0	0	0	0	0	0
California	0	0	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0	0
Outlying areas	0	0	0	0	0	0	0	0

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 53. Non-Hispanic black U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and Historically Black Colleges and Universities (HBCUs), by field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all black students								
Total, all surveyed fields	18,487	20,434	21,175	22,154	22,975	23,562	24,262	25,260
Total, science and eng. fields	15,445	17,116	17,610	18,282	19,068	19,346	19,654	20,341
Sciences, total	13,069	14,556	14,826	15,426	16,171	16,468	16,832	17,375
Physical sciences	807	843	856	897	986	952	913	903
Earth, atmos., and ocean sci.	201	224	202	215	219	203	202	213
Mathematical sciences	579	710	673	689	711	657	613	594
Computer sciences	1,106	1,167	1,182	1,155	1,276	1,300	1,355	1,501
Agricultural sciences	210	238	240	298	272	232	313	277
Biological sciences	1,493	1,737	1,709	1,879	2,010	2,167	2,175	2,258
Psychology	2,758	3,284	3,529	3,359	3,452	3,644	3,813	3,787
Social sciences	5,915	6,353	6,435	6,934	7,245	7,313	7,448	7,842
Engineering	2,376	2,560	2,784	2,856	2,897	2,878	2,822	2,966
Health fields	3,042	3,318	3,565	3,872	3,907	4,216	4,608	4,919
Black students in HBCUs								
Total, all surveyed fields	2,232	2,627	2,982	3,189	3,384	3,632	3,528	3,744
Total, science and eng. fields	2,075	2,433	2,768	2,906	3,174	3,279	3,082	3,233
Sciences, total	1,898	2,221	2,515	2,612	2,883	2,995	2,799	2,939
Physical sciences	179	211	231	253	279	286	229	179
Earth, atmos., and ocean sci.	30	42	30	38	34	43	40	36
Mathematical sciences	111	169	155	139	157	128	107	129
Computer sciences	200	190	227	210	217	219	199	216
Agricultural sciences	70	84	102	130	111	88	137	155
Biological sciences	306	403	453	492	543	593	563	572
Psychology	352	428	489	413	430	490	399	451
Social sciences	650	694	828	937	1,112	1,148	1,125	1,201
Engineering	177	212	253	294	291	284	283	294
Health fields	157	194	214	283	210	353	446	511
Percent of black students in HBCUs								
Total, all surveyed fields	12.1	12.9	14.1	14.4	14.7	15.4	14.5	14.8
Total, science and eng. fields	13.4	14.3	15.7	15.9	16.6	16.9	15.7	15.9
Sciences, total	14.5	15.4	17.0	16.9	17.8	18.2	16.6	16.9
Physical sciences	22.2	24.9	27.0	28.2	28.3	30.0	25.1	19.8
Earth, atmos., and ocean sci.	14.9	18.8	14.9	17.7	15.5	21.2	19.8	16.9
Mathematical sciences	19.2	25.9	23.0	20.2	22.1	19.5	17.5	21.7
Computer sciences	18.1	16.3	19.2	18.2	17.0	16.8	14.7	14.4
Agricultural sciences	33.3	40.5	42.5	43.6	40.8	37.9	43.8	56.0
Biological sciences	20.5	23.1	26.5	26.2	27.0	27.4	25.9	25.3
Psychology	12.8	12.8	13.9	12.3	12.5	13.4	10.5	11.9
Social sciences	11.0	10.9	12.9	13.5	15.3	15.7	15.1	15.3
Engineering	7.4	8.2	9.1	10.3	10.0	9.9	10.0	9.9
Health fields	5.2	5.8	6.0	7.3	5.4	8.4	9.7	10.4

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 54. Non-Hispanic black U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and Historically Black Colleges and Universities (HBCUs), by field and sex: 1994-1999

Field	Men						Women					
	1994	1995	1996	1997	1998	1999	1994	1995	1996	1997	1998	1999
Total, all black students												
Total, all surveyed fields	8,669	8,932	8,971	9,115	9,245	9,555	12,506	13,222	14,004	14,447	15,017	15,705
Total, science and engineering fields	8,049	8,211	8,251	8,332	8,324	8,592	9,561	10,071	10,817	11,014	11,330	11,749
Sciences, total	6,082	6,254	6,297	6,370	6,382	6,603	8,744	9,172	9,874	10,098	10,450	10,772
Physical sciences	497	529	550	508	481	501	359	368	436	444	432	402
Earth, atmos., & ocean sciences	117	116	115	105	103	112	85	99	104	98	99	101
Mathematical sciences	343	385	368	347	339	324	330	304	343	310	274	270
Computer sciences	696	652	716	765	764	824	486	503	560	535	591	677
Agricultural sciences	119	151	132	105	149	135	121	147	140	127	164	142
Biological sciences	671	691	725	780	787	786	1,038	1,188	1,285	1,387	1,388	1,472
Psychology	851	817	808	908	887	915	2,678	2,542	2,644	2,736	2,926	2,872
Social sciences	2,788	2,913	2,883	2,852	2,872	3,006	3,647	4,021	4,362	4,461	4,576	4,836
Engineering	1,967	1,957	1,954	1,962	1,942	1,989	817	899	943	916	880	977
Health fields	620	721	720	783	921	963	2,945	3,151	3,187	3,433	3,687	3,956
Black students in HBCUs												
Total, all surveyed fields	1,265	1,331	1,383	1,462	1,340	1,477	1,717	1,858	2,001	2,170	2,188	2,267
Total, science and engineering fields	1,226	1,273	1,343	1,396	1,237	1,368	1,542	1,633	1,831	1,883	1,845	1,865
Sciences, total	1,048	1,078	1,152	1,201	1,047	1,190	1,467	1,534	1,731	1,794	1,752	1,749
Physical sciences	127	145	161	151	114	94	104	108	118	135	115	85
Earth, atmos., & ocean sciences	12	16	14	17	20	21	18	22	20	26	20	15
Mathematical sciences	69	79	80	71	57	66	86	60	77	57	50	63
Computer sciences	125	92	105	117	107	107	102	118	112	102	92	109
Agricultural sciences	42	57	54	42	60	76	60	73	57	46	77	79
Biological sciences	187	194	202	218	185	190	266	298	341	375	378	382
Psychology	132	114	108	171	97	125	357	299	322	319	302	326
Social sciences	354	381	428	414	407	511	474	556	684	734	718	690
Engineering	178	195	191	195	190	178	75	99	100	89	93	116
Health fields	39	58	40	66	103	109	175	225	170	287	343	402
Percent of black students in HBCUs												
Total, all surveyed fields	14.6	14.9	15.4	16.0	14.5	15.5	13.7	14.1	14.3	15.0	14.6	14.4
Total, science and engineering fields	15.2	15.5	16.3	16.8	14.9	15.9	16.1	16.2	16.9	17.1	16.3	15.9
Sciences, total	17.2	17.2	18.3	18.9	16.4	18.0	16.8	16.7	17.5	17.8	16.8	16.2
Physical sciences	25.6	27.4	29.3	29.7	23.7	18.8	29.0	29.3	27.1	30.4	26.6	21.1
Earth, atmos., & ocean sciences	10.3	13.8	12.2	16.2	19.4	18.8	21.2	22.2	19.2	26.5	20.2	14.9
Mathematical sciences	20.1	20.5	21.7	20.5	16.8	20.4	26.1	19.7	22.4	18.4	18.2	23.3
Computer sciences	18.0	14.1	14.7	15.3	14.0	13.0	21.0	23.5	20.0	19.1	15.6	16.1
Agricultural sciences	35.3	37.7	40.9	40.0	40.3	56.3	49.6	49.7	40.7	36.2	47.0	55.6
Biological sciences	27.9	28.1	27.9	27.9	23.5	24.2	25.6	25.1	26.5	27.0	27.2	26.0
Psychology	15.5	14.0	13.4	18.8	10.9	13.7	13.3	11.8	12.2	11.7	10.3	11.4
Social sciences	12.7	13.1	14.8	14.5	14.2	17.0	13.0	13.8	15.7	16.5	15.7	14.3
Engineering	9.0	10.0	9.8	9.9	9.8	8.9	9.2	11.0	10.6	9.7	10.6	11.9
Health fields	6.3	8.0	5.6	8.4	11.2	11.3	5.9	7.1	5.3	8.4	9.3	10.2

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table 55. Full-time non-Hispanic black U.S. citizen and permanent resident graduate students in science, engineering, and health fields in all institutions and Historically Black Colleges and Universities (HBCUs); by field: 1992-1999

Field	1992	1993	1994	1995	1996	1997	1998	1999
Total, all black students								
Total, all surveyed fields	10,220	11,385	11,965	12,506	12,992	13,569	13,783	13,971
Total, science and eng. fields	8,904	9,901	10,342	10,667	10,983	11,405	11,304	11,227
Sciences, total	7,545	8,411	8,639	8,977	9,320	9,732	9,725	9,620
Physical sciences	630	690	709	729	769	741	728	700
Earth, atmos., and ocean sci.	128	142	129	135	128	137	134	137
Mathematical sciences	331	411	412	423	422	386	355	342
Computer sciences	411	460	465	485	475	494	476	540
Agricultural sciences	163	162	162	228	196	177	208	202
Biological sciences	1,119	1,348	1,369	1,450	1,513	1,730	1,655	1,709
Psychology	1,656	1,854	2,046	2,028	2,084	2,221	2,417	2,211
Social sciences	3,107	3,344	3,347	3,499	3,733	3,846	3,752	3,779
Engineering	1,359	1,490	1,703	1,690	1,663	1,673	1,579	1,607
Health fields	1,316	1,484	1,623	1,839	2,009	2,164	2,479	2,744
Black students in HBCUs								
Total, all surveyed fields	1,289	1,604	1,951	2,004	2,086	2,308	2,184	2,288
Total, science and eng. fields	1,201	1,484	1,807	1,841	1,954	2,070	1,871	1,917
Sciences, total	1,075	1,300	1,588	1,591	1,735	1,849	1,665	1,697
Physical sciences	130	178	188	198	217	215	185	145
Earth, atmos., and ocean sci.	11	24	15	8	9	22	17	13
Mathematical sciences	62	106	98	89	99	79	67	80
Computer sciences	90	93	113	92	90	114	80	109
Agricultural sciences	57	32	46	92	67	69	98	110
Biological sciences	228	333	375	380	419	470	409	430
Psychology	145	193	284	262	259	287	254	194
Social sciences	352	341	469	470	575	593	555	616
Engineering	126	184	219	250	219	221	206	220
Health fields	88	120	144	163	132	238	313	371
Percent of black students in HBCUs								
Total, all surveyed fields	12.6	14.2	16.3	16.0	16.1	17.0	15.8	16.4
Total, science and eng. fields	13.5	15.2	17.5	17.3	17.8	18.1	16.6	17.1
Sciences, total	14.2	15.7	18.4	17.7	18.6	19.0	17.1	17.6
Physical sciences	20.6	25.6	26.5	27.2	28.2	29.0	25.4	20.7
Earth, atmos., and ocean sci.	8.6	16.9	11.6	5.9	7.0	16.1	12.7	9.5
Mathematical sciences	18.7	29.2	23.8	21.0	23.5	20.5	18.9	23.4
Computer sciences	21.9	20.2	24.3	19.0	18.9	23.1	16.8	20.2
Agricultural sciences	35.0	26.1	28.4	40.4	34.2	39.0	47.1	54.5
Biological sciences	20.4	24.6	27.4	26.2	27.7	27.2	24.7	25.2
Psychology	8.8	10.2	13.9	12.9	12.4	12.9	10.5	8.8
Social sciences	11.3	10.1	14.0	13.4	15.4	15.4	14.8	16.3
Engineering	9.3	12.2	12.9	14.8	13.2	13.2	13.0	13.7
Health fields	6.7	8.1	8.9	8.9	6.6	11.0	12.6	13.5

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

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**Table 56. Full-time non-Hispanic black U.S. citizen and permanent resident graduate students
in science, engineering, and health fields in all institutions and Historically Black
Colleges and Universities (HBCUs), by field and sex: 1994-1999**

Field	Men						Women					
	1994	1995	1996	1997	1998	1999	1994	1995	1996	1997	1998	1999
Total, all black students												
Total, all surveyed fields	5,114	5,212	5,242	5,376	5,313	5,311	6,851	7,294	7,750	8,193	8,470	8,660
Total, science and engineering fields	4,772	4,807	4,784	4,897	4,740	4,726	5,570	5,860	6,199	6,508	6,564	6,501
Sciences, total	3,607	3,691	3,693	3,782	3,706	3,692	5,032	5,286	5,627	5,950	6,019	5,928
Physical sciences	409	434	441	393	390	390	300	295	328	348	338	310
Earth, atmos., & ocean sciences	79	78	67	71	67	63	50	57	61	66	67	74
Mathematical sciences	208	242	221	208	206	188	204	181	201	178	149	154
Computer sciences	283	285	281	309	269	306	182	200	194	185	207	234
Agricultural sciences	82	105	84	83	88	95	80	123	112	94	120	107
Biological sciences	546	543	562	633	615	598	823	907	951	1,097	1,040	1,111
Psychology	507	489	495	539	563	530	1,539	1,539	1,589	1,682	1,854	1,681
Social sciences	1,493	1,515	1,542	1,546	1,508	1,522	1,854	1,984	2,191	2,300	2,244	2,257
Engineering	1,165	1,116	1,091	1,115	1,034	1,034	538	574	572	558	545	573
Health fields	342	405	458	479	573	585	1,281	1,434	1,551	1,685	1,906	2,159
Black students in HBCUs												
Total, all surveyed fields	867	848	865	941	836	946	1,084	1,156	1,221	1,367	1,348	1,342
Total, science and engineering fields	838	825	846	905	767	865	969	1,016	1,108	1,165	1,104	1,052
Sciences, total	683	662	707	755	622	725	905	929	1,028	1,094	1,043	972
Physical sciences	105	117	129	113	96	80	83	81	88	102	89	65
Earth, atmos., & ocean sciences	8	6	5	9	8	7	7	2	4	13	9	6
Mathematical sciences	39	51	51	45	41	45	59	38	48	34	26	35
Computer sciences	64	40	52	70	41	54	49	52	38	44	39	55
Agricultural sciences	23	35	30	34	38	54	23	57	37	35	60	56
Biological sciences	157	148	158	179	134	134	218	232	261	291	275	296
Psychology	72	63	58	77	63	48	212	199	201	210	191	146
Social sciences	215	202	224	228	201	303	254	268	351	365	354	313
Engineering	155	163	139	150	145	140	64	87	80	71	61	80
Health fields	29	23	19	36	69	81	115	140	113	202	244	290
Percent of black students in HBCUs												
Total, all surveyed fields	17.0	16.3	16.5	17.5	15.7	17.8	15.8	15.8	15.8	16.7	15.9	15.5
Total, science and engineering fields	17.6	17.2	17.7	18.5	16.2	18.3	17.4	17.3	17.9	17.9	16.8	16.2
Sciences, total	18.9	17.9	19.1	20.0	16.8	19.6	18.0	17.6	18.3	18.4	17.3	16.4
Physical sciences	25.7	27.0	29.3	28.8	24.6	20.5	27.7	27.5	26.8	29.3	26.3	21.0
Earth, atmos., & ocean sciences	10.1	7.7	7.5	12.7	11.9	11.1	14.0	3.5	6.6	19.7	13.4	8.1
Mathematical sciences	18.8	21.1	23.1	21.6	19.9	23.9	28.9	21.0	23.9	19.1	17.4	22.7
Computer sciences	22.6	14.0	18.5	22.7	15.2	17.6	26.9	26.0	19.6	23.8	18.8	23.5
Agricultural sciences	28.0	33.3	35.7	41.0	43.2	56.8	28.7	46.3	33.0	37.2	50.0	52.3
Biological sciences	28.8	27.3	28.1	28.3	21.8	22.4	26.5	25.6	27.4	26.5	26.4	26.6
Psychology	14.2	12.9	11.7	14.3	11.2	9.1	13.8	12.9	12.6	12.5	10.3	8.7
Social sciences	14.4	13.3	14.5	14.7	13.3	19.9	13.7	13.5	16.0	15.9	15.8	13.9
Engineering	13.3	14.6	12.7	13.5	14.0	13.5	11.9	15.2	14.0	12.7	11.2	14.0
Health fields	8.5	5.7	4.1	7.5	12.0	13.8	9.0	9.8	7.3	12.0	12.8	13.4

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Graduate Students and Postdoctorates in Science and Engineering

SURVEY MATERIALS

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INSTRUCTIONS

FOR THE NSF-NIH SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1999

PURPOSE OF THE SURVEY

The survey provides a comprehensive picture of the training of future scientists and engineers in the Nation's graduate schools. Data are used by Congress and the executive branch during budget preparation, and by state government agencies and other analysts to assess the future supply of science and engineering (S&E) personnel.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary and failure to provide some or all of the information will in no way adversely affect your institution.

The average time required for questionnaire completion is 2 hours. Response burden comments should be directed to Suzanne Plimpton at (703) 306-1125, ext. 2017.

Students Included in This Survey

Count as graduate students persons enrolled for credit in any S&E master's or Ph.D. degree program in fall 1999. Report M.D., D.O., D.V.M., or D.D.S. candidates, interns, and residents in items 5 through 7 only if they are concurrently working for an S&E master's or Ph.D. degree or are enrolled in a joint medical/Ph.D. program. Individuals who already hold graduate or medical degrees and are working on another master's or Ph.D. degree are considered graduate students (items 5 through 7), not postdoctorates (item 8).

Include S&E students performing thesis or dissertation research away from the campus (for example, at Government- and contractor-owned facilities) in the United States as long as they are enrolled for credit in an advanced-degree program.

All data should be reported in terms of headcounts, not full-time equivalents (FTEs).

Students Excluded From This Survey

Exclude students enrolled in a foreign country (at a branch or extension center), and non-matriculated students.

Students Enrolled in Multiple Departments/Institutions

A student should be reported in only one department. Students enrolled in interdisciplinary/interinstitutional programs should be counted only once, by their "home" department and institution.

INCOMPLETE DATA

Please write "unavailable" or "unknown" in data cells as applicable. On this form, "N/A" means "not applicable." Data cells left blank are presumed to be zeroes.

ITEM 5: FULL-TIME STUDENTS

Report the total number of full-time degree-seeking students in line (6), column (M). Then, in lines (1) through (6), count each full-time student only once by largest source of support so that all columns and rows in item 5 sum to the full-time total in line (6), column (M). In item 5, count only graduate students pursuing an S&E degree according to a full-time schedule; this may include any combination of study, teaching, and research, depending on your institution's policy and definition of full-time status. For example, many institutions base full-time status on the number of credit hours taken; others calculate full-time according to the amount of fees paid by the student.

Mechanisms of Support—Lines (1) Through (5)

A fellowship, line (1), is any competitive award (often from a national competition) made to a student that requires no work of the recipient. A traineeship, line (2), is an educational award given to a student selected by the institution. An assistantship should be classified as research, line (3), or teaching, line (4), depending on assigned duties; e.g., a student devoting most of his or her time to teaching should be reported on line (4). All other full-time students, including members of the Armed Forces whose tuition is paid by the Department of Defense, and self-supported students, should be reported on line (5).

Federal Sources of Support—Columns (A) Through (H)
Department of Defense (DoD)—Column (A): Sources include the Departments of the Army, Navy, or Air Force, as well as programs within the Office of the Secretary of Defense. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (H), "Other Federal sources."

Department of Health and Human Services (HHS)—Columns (B) and (C): Report students with support from the institutes or divisions of the National Institutes of Health (NIH) under column (B); report support from all other components of HHS in column (C). Refer to the organizational roster under "Definitions."

National Science Foundation (NSF)—Column (D): Report students receiving NSF graduate fellowships, as well as those supported under NSF research grants.

U.S. Department of Agriculture (USDA)—Column (E): Include research assistants working on projects financed out of Hatch, McIntyre-Stennis, or Smith-Lever formula funds, competitive research grants, and institution fellowship/training grants.

National Aeronautics and Space Administration (NASA)—Column (F): Report students with support from this agency.

Department of Energy (DOE)—Column (G): Report students receiving support under DOE research grants, including those supported by grants at national laboratories.

Other Federal Sources—Column (H): Report students receiving support from Federal agencies other than those listed in columns (A) through (G), such as the Fulbright program, the G.I. Bill, and Department of Education programs. Students primarily supported by Federal loans should be reported in column (L), "Self-supported students."

Non-Federal Sources of Support—Cols. (I) Through (L)

Institutional support—Column (I): Report students supported from YOUR institution, including those receiving tuition waivers. State and local government support should also be reported in this column. Students primarily supported with funds from the Federal Government, such as training grants, however, should be reported under the appropriate Federal agency.

Foreign sources—Column (J): Report students supported from any non-U.S. source, such as foreign governments, industrial firms, or specialized agencies of the United Nations.

Other U.S. sources—Column (K): Report students supported from nonprofit institutions, private industry, and all other non-Federal U.S. sources not included in columns (I) or (J).

Self-supported students—Column (L): Report both foreign and U.S. citizen students whose largest source of support comes from ANY loans (including Federal loans) or from personal or family financial contributions. These students must be included in the full-time total, line (6), column (M).

Women—Line (7)

Report all full-time female students by the source of their primary support. The total number of full-time women should be reported in line (7), column (M).

In each column, data on line (7) should not exceed the total on line (6).

ITEM 6: PART-TIME STUDENTS

Report all part-time students in item 6, regardless of their source of support, by racial/ethnic category (see instructions for item 7). Part-time students are pursuing an S&E graduate degree but NOT on a full-time schedule. Consider students part-time according to your own institution's definition of part-time status.

ITEM 7: CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND OF U.S. CITIZENS AND PERMANENT RESIDENTS

Report all U.S. citizens and permanent residents in columns (A) through (I), and count each student only once according to his or her racial/ethnic category as defined by the Office of Management and Budget, listed under "Definitions (3)."

Count foreign students, i.e., those holding temporary visas, only once in column (J), regardless of race/ethnicity. Native residents of a U.S. possession and applicants for U.S. citizenship holding green cards, however, should be reported as U.S. citizens.

In compliance with the new format, please record, under the One Race Only: Non-Hispanic header, columns A through E, those U.S. citizen or permanent resident students who have reported themselves in only one of the following categories: non-Hispanic Black/African American, non-Hispanic American Indian or Alaska Native, non-Hispanic Asian American, non-Hispanic Native Hawaiian/Pacific Islander, or non-Hispanic White. Under the header One Race Only: Hispanic, column F, please record those U.S. citizens and permanent residents who have reported themselves as Hispanic and either no race or only one race (Black/African American, American Indian or Alaska Native, Asian, Native Hawaiian/Pacific Islander, or White). If you allow students to report multiple races and they are U.S. citizens or permanent residents, please record them in columns G and H. If students have reported themselves as Hispanic and two or more of the racial categories, please record them in column G. More Than One Race Reported, Hispanic. Students who are non-Hispanic but are two or more races should be recorded in column H. More Than One Race Reported, non-Hispanic. Record students who are U.S. citizens or permanent residents but have an unknown race or ethnicity in column I. Finally, record all of those students who are on temporary visas in column J regardless of their race or ethnicity.

Total full-time enrollment reported in item 7 should match that reported in item 5.

First-Time Full-Time Students—Lines (4) and (5)

A first-time student has enrolled in the program in which he or she is pursuing a degree as of the beginning of the fall term in 1999. All other students should be considered to be beyond their first time of enrollment.

ITEM 8: POSTDOCTORATES AND NONFACULTY RESEARCH STAFF WITH DOCTORATES

Postdoctorates—Columns (A) through (F): Include

individuals with science and engineering Ph.D.'s, M.D.'s, D.D.S.'s, or D.V.M.'s (including foreign degrees equivalent to U.S. doctorates) who devote their primary effort to their own research training through research activities or study in the department under temporary appointments carrying no academic rank. These individuals may contribute to the academic program through seminars, lectures, or working with graduate students. Such postdoctorates may have different titles at different institutions, e.g., "Postdoctoral Scholar," "Research Associate," "Postdoctoral Fellow," or "Postgraduate Researcher." Exclude, however, clinical fellows and those with appointments in residency training programs in medical and health professions, unless research training under the supervision of a senior mentor is the primary purpose of the appointment.

Report postdoctorates by source of support in columns (A) through (D), with the total number of postdoctorates reported in column (E). Of this total, report the number who are foreign in column (F).

Other non-faculty research staff with doctorates—Column (G): Include all doctoral scientists and engineers who are involved principally in research activities but are not considered either postdoctoral appointees or members of the regular faculty.

On line (2), report the number of women in each category. On line (3), report those postdoctorates and nonfaculty research staff who hold first professional medical degrees (M.D., D.O., D.D.S., D.V.M.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

DEFINITIONS

(1) NATIONAL INSTITUTES OF HEALTH

ORGANIZATIONAL ROSTER

—Item 5, column (B)

Fogarty International Center
National Cancer Institute
National Center for Human Genome Research
National Center for Nursing Research
National Center for Research Resources
National Eye Institute
National Heart, Lung, and Blood Institute
National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institute of Child Health and Human Development
National Institute of Dental Research
National Institute of Diabetes and Digestive and Kidney Diseases
National Institute of Environmental Health Sciences
National Institute of General Medical Sciences

FOR FURTHER INFORMATION:

If you have any questions about this survey, please contact Ms. Brandy McLachlan or Mr. Dan Tran of Quantum Research Corporation by telephone at (301) 657-3077, ext. 157 or 313, respectively, or by email at gss@qrc.com.

UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR FOR TRANSMITTAL BY JANUARY 31, 2000.

National Institute of Mental Health
National Institute of Neurological Disorders and Stroke
National Institute on Aging
National Institute on Alcohol Abuse and Alcoholism
National Institute of Allergy and Infectious Diseases
National Institute on Deafness and Other Communication Disorders

National Institute on Drug Abuse

National Library of Medicine

(2) OTHER HHS ADMINISTRATIVE UNITS

—Item 5, column (C)

Substance Abuse and Mental Health Services Administration
(Please note that the former Alcohol, Drug Abuse and Mental Health Administration institutes are now part of the National Institutes of Health.)

Centers for Disease Control and Prevention

National Institute for Occupational Safety and Health

Food and Drug Administration

Health Resources and Services Administration

(3) RACIAL/ETHNIC CATEGORIES FOR U.S.

CITIZENS AND PERMANENT RESIDENTS

DEFINED BY THE OFFICE OF MANAGEMENT

AND BUDGET

—Item 7

Black or African American: A person having origins in any of the black racial groups of Africa.

American Indian or Alaska Native: A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

Asian American: A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent; for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Samoa, Thailand, and Vietnam.

Native Hawaiian or Other Pacific Islander: A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands.

White: A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

Hispanic or Latino: A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.

More Than One Race Reported: Students reporting two or more of the race/ethnicity categories above.

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH
Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1999

Due date: January 31, 2000

DEPARTMENT OR PROGRAM DATA SHEET

3. Person in department or program preparing this form:

Institution and department code (LEAVE BLANK)

Name: _____
 Title: _____
 Phone: (____) _____
 E-mail address: _____

ITEMS 1-4. IDENTIFYING INFORMATION

1. Institution name: _____

2. Name of S&E department or program: _____

If changed since last year, please indicate previous name and whether this represents a merger, split, or expanded program: _____

4. Highest graduate degree available in this department or program (CHECK ONE): (1) Ph.D.¹ (2) Master's (3) No Ph.D.¹ or Master's degree offered

Report all data on a headcount basis (use whole numbers, not fractions, decimals, FTEs, etc.). If your department does not enroll graduate students, please go to item 8.

ITEM 5. NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctoral) in fall 1999. Report each student only once according to the source and mechanism of the largest amount of support received in fall 1999.

Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school academic expenses including tuition, tuition remission, and stipends.

STUDENTS RECEIVING FINANCIAL ASSISTANCE

MECHANISMS OF SUPPORT	STUDENTS RECEIVING FINANCIAL ASSISTANCE										TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (L)) (M)					
	FEDERAL SOURCES (excluding loans)					NON-FEDERAL SOURCES						SELF-SUPPORTED STUDENTS (including loans and family sources) (L)				
	Department of Defense (A)	National Institutes of Health (B)	Other HHS (C)	National Science Foundation (D)	Department of Agriculture (E)	NASA (F)	Department of Energy (G)	Other Federal sources (H)	Institutional support (including state & local government) (I)	Foreign sources (J)			Other U.S. sources (K)			
Graduate Fellowships																
Graduate Traineeships																
Graduate Research Assistantships																
Graduate Teaching Assistantships																
Other Types of Support																
FULL-TIME TOTAL²																
Of the students in line (6), how many in each data cell are WOMEN? ³																

¹ Or Ph.D. equivalent such as Sc.D. and D.Eng., but not Ed.D., M.D., or other professional degree

² The total from line (6) should be inserted in item 7, line (3), column (K).

³ The total from line (7) should be inserted in item 7, line (2), column (K).

ITEM 6. RACE/ ETHNICITY of PART- TIME graduate students in fall 1999, by sex.	U.S. CITIZENS AND PERMANENT RESIDENTS											FOREIGN Temporary visa holders (J) (K)	TOTAL (Sum of A through J)	
	ONE RACE ONLY: Non-Hispanic/Latino					ONE RACE ONLY		MORE THAN ONE RACE		Unknown or did not state (I)				
	Black/ African American (A)	Amer. Indian or Alaska Native (B)	Asian American (C)	Native Hawaiian/ Pacific Islander (D)	White (E)	Hispanic/ Latino (F)	Hispanic/ Latino (G)	Non- Hispanic/ Latino (H)						
														(J)
How many students belong to the following RACIAL/ETHNIC categories? In each line, count each student only once.														
MEN ENROLLED PART TIME (1)														
WOMEN ENROLLED PART TIME (2)														
PART TIME, TOTAL (3)														

ITEM 7. RACE/ ETHNICITY of FULL- TIME (Item 5) graduate students in fall 1999, by sex.														
MEN ENROLLED FULL TIME (1)														
WOMEN ENROLLED FULL TIME (2) (column (K) should equal item 5, line (7), column (M))														
FULL TIME, TOTAL (column (K) should equal item 5, line (6), column (M)) (3)														
Of the full-time students on line (3), how many are FIRST TIME? (4)														
Of the first-time students on line (4), how many are WOMEN? (5)														

ITEM 8. NUMBER OF POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES in fall 1999.	POSTDOCTORATES						OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES (G)
	SOURCE OF SUPPORT			NON-FEDERAL (D)	TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)	
	FEDERAL	RESEARCH GRANTS (C)					
	Fellowships (A)	Traineeships (B)	Research grants (C)				
TOTAL (1)							
Of the total in each cell of line (1), how many are WOMEN? (2)							
Of the total in each cell of line (1), how many hold an M.D., D.O., D.D.S., or D.V.M. degree? (3)							

Approximately how many person hours were required to complete this form?

List other Federal sources (agencies), from item 5, column (H), and number of full-time students supported by each:

Please explain variances from the previous year's data or include other comments:

Survey of Graduate Students and Postdoctorates in Science and Engineering

CROSSWALK BETWEEN NSF DISCIPLINE CODES AND THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

The following set of discipline codes categorizes the science and engineering departments or programs in the Survey of Graduate Students and Postdoctorates in Science and Engineering. Representative department names are shown under each of the discipline codes.

ENGINEERING

- 101 AEROSPACE ENGINEERING**
14.02 AEROSPACE, AERONAUTICAL, AND ASTRONAUTICAL ENGR.
- 102 AGRICULTURAL ENGINEERING**
14.03 AGRICULTURAL ENGINEERING
- 103 BIOMEDICAL ENGINEERING**
14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING
- 104 CHEMICAL ENGINEERING**
03.0509 WOOD SCIENCE
14.07 CHEMICAL ENGINEERING
14.32 POLYMER/PLASTICS ENGINEERING
- 105 CIVIL ENGINEERING**
04.02 ARCHITECTURE
14.04 ARCHITECTURAL ENGINEERING
14.08 CIVIL ENGINEERING
14.0803 STRUCTURAL ENGINEERING
14.0805 WATER RESOURCES ENGINEERING
14.14 ENVIRONMENTAL/ENVIRONMENTAL HEALTH ENGINEERING
- 106 ELECTRICAL ENGINEERING**
14.09 COMPUTER ENGINEERING
14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGR.
- 107 ENGINEERING SCIENCE AND ENGINEERING PHYSICS**
14.12 ENGINEERING PHYSICS
14.13 ENGINEERING SCIENCE
- 108 INDUSTRIAL/MANUFACTURING ENGINEERING**
14.17 INDUSTRIAL/MANUFACTURING ENGINEERING
14.27 SYSTEMS ENGINEERING
14.30 ENGINEERING/INDUSTRIAL MANAGEMENT
30.06 SYSTEMS SCIENCE
- 109 MECHANICAL ENGINEERING**
14.11 ENGINEERING MECHANICS
14.19 MECHANICAL ENGINEERING
- 110 METALLURGICAL AND MATERIALS ENGINEERING**
14.06 CERAMIC SCIENCES AND ENGINEERING
14.18 MATERIALS ENGINEERING
14.20 METALLURGICAL ENGINEERING
14.28 TEXTILE SCIENCES AND ENGINEERING
14.31 MATERIALS SCIENCE
40.0701 METALLURGY
- 111 MINING ENGINEERING**
14.15 GEOLOGICAL ENGINEERING
14.16 GEOPHYSICAL ENGINEERING
14.21 MINING AND MINERAL ENGINEERING
- 112 NUCLEAR ENGINEERING**
14.23 NUCLEAR ENGINEERING
- 113 PETROLEUM ENGINEERING**
14.25 PETROLEUM ENGINEERING
- 114 ENGINEERING, N.E.C.**
14.01 ENGINEERING, GENERAL
14.22 NAVAL ARCHITECTURE AND MARINE ENGINEERING
14.24 OCEAN ENGINEERING
14.29 ENGINEERING DESIGN
14.99 ENGINEERING, OTHER

PHYSICAL SCIENCES

- 201 ASTRONOMY**
40.02 ASTRONOMY
40.03 ASTROPHYSICS
- 202 CHEMISTRY**
40.05 CHEMISTRY (SEE ALSO 602)
40.0507 POLYMER CHEMISTRY
- 203 PHYSICS**
40.08 PHYSICS (SEE ALSO 605)
40.0807 OPTICS
40.0809 ACOUSTICS
- 204 PHYSICAL SCIENCES, N.E.C.**
40.01 PHYSICAL SCIENCES, GENERAL
40.0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER
40.99 PHYSICAL SCIENCES, OTHER

EARTH, ATMOSPHERIC, AND OCEAN SCIENCES

- 301 ATMOSPHERIC SCIENCES**
40.04 ATMOSPHERIC SCIENCES AND METEOROLOGY
- 302 GEOSCIENCES**
40.06 GEOLOGICAL AND RELATED SCIENCES
40.0703 EARTH AND PLANETARY SCIENCES
- 303 OCEAN SCIENCES**
26.0607 MARINE/AQUATIC BIOLOGY
40.0702 OCEANOGRAPHY
- 304 EARTH, ATMOSPHERIC, AND OCEAN SCIENCES, N.E.C.**

MATHEMATICAL SCIENCES

- 402 MATHEMATICS AND APPLIED MATHEMATICS**
27.01 MATHEMATICS
27.03 APPLIED MATHEMATICS
27.0302 OPERATIONS RESEARCH
27.99 MATHEMATICS, OTHER
30.08 MATHEMATICS AND COMPUTER SCIENCE
- 403 STATISTICS**
27.05 MATHEMATICAL STATISTICS
52.0802 ACTUARIAL SCIENCE

COMPUTER SCIENCE

- 401 COMPUTER SCIENCE**
11.01 COMPUTER AND INFORMATION SCIENCES, GENERAL
11.04 INFORMATION SCIENCES AND SYSTEMS
11.07 COMPUTER SCIENCE
52.1201 MANAGEMENT INFORMATION SYSTEMS
52.1301 MANAGEMENT SCIENCE

AGRICULTURAL SCIENCES (SEE ALSO 102 AND 901)

- 501 AGRICULTURAL SCIENCES**
02.01 AGRICULTURE/AGRICULTURAL SCIENCES
02.02 ANIMAL SCIENCES
02.03 FOOD SCIENCES
02.04 PLANT SCIENCES
02.05 SOIL SCIENCES
02.99 AGRICULTURAL SCIENCES, OTHER
03.01 NATURAL RESOURCES CONSERVATION
03.02 CONSERVATION AND REGULATION
03.03 FISHING AND FISHERIES SCIENCES AND MANAGEMENT
03.05 FORESTRY AND RELATED SCIENCES
03.06 WILDLIFE AND WILDLANDS MANAGEMENT
03.99 CONSERVATION AND RENEWABLE NATURAL RESOURCES, OTHER

BIOLOGICAL SCIENCES

- 601 ANATOMY**
26.0601 ANATOMY
51.1301 MEDICAL ANATOMY
- 602 BIOCHEMISTRY**
26.0202 BIOCHEMISTRY
51.1302 MEDICAL BIOCHEMISTRY
- 603 BIOLOGY**
26.01 BIOLOGY, GENERAL
- 604 BIOMETRY AND EPIDEMIOLOGY**
26.0614 BIOMETRICS
26.0615 BIOSTATISTICS
51.1303 MEDICAL BIOMATHEMATICS AND BIOMETRICS
51.2203 EPIDEMIOLOGY
- 605 BIOPHYSICS**
26.0203 BIOPHYSICS
51.1304 MEDICAL BIOPHYSICS/PHYSICS
- 606 BOTANY**
26.03 BOTANY
(EXCLUDING 26.05 MICROBIOLOGY/BACTERIOLOGY—SEE 611)
26.0305 PLANT PATHOLOGY
26.0307 PLANT PHYSIOLOGY
- 607 CELL AND MOLECULAR BIOLOGY**
26.04 CELL AND MOLECULAR BIOLOGY
26.0401 CELL BIOLOGY
26.0402 MOLECULAR BIOLOGY
51.1305 MEDICAL CELL BIOLOGY
51.1309 MEDICAL MOLECULAR BIOLOGY

- 608 ECOLOGY**
26.0603 ECOLOGY
- 609 ENTOMOLOGY AND PARASITOLOGY**
26.0610 PARASITOLOGY
26.0702 ENTOMOLOGY
- 610 GENETICS**
26.0613 GENETICS, PLANT AND ANIMAL
26.0617 EVOLUTIONARY BIOLOGY
51.1306 MEDICAL GENETICS
- 611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY**
26.05 MICROBIOLOGY/BACTERIOLOGY
26.0618 BIOLOGICAL IMMUNOLOGY
26.0619 VIROLOGY
51.1308 MEDICAL MICROBIOLOGY
- 612 NUTRITION**
19.05 FOODS AND NUTRITION STUDIES
26.0609 NUTRITIONAL SCIENCES
51.1311 MEDICAL NUTRITION
- 613 PATHOLOGY**
26.0704 PATHOLOGY, HUMAN AND ANIMAL
51.1312 MEDICAL PATHOLOGY
- 614 PHARMACOLOGY**
26.0612 TOXICOLOGY
26.0705 PHARMACOLOGY, HUMAN AND ANIMAL
51.1314 MEDICAL TOXICOLOGY
- 615 PHYSIOLOGY**
26.0706 PHYSIOLOGY, HUMAN AND ANIMAL
51.1313 MEDICAL PHYSIOLOGY
- 616 ZOOLOGY**
26.07 ZOOLOGY
- 617 BIOSCIENCES, N.E.C.**
26.0616 BIOTECHNOLOGY RESEARCH
26.0699 MISCELLANEOUS BIOLOGICAL SPECIALIZATIONS, OTHER
26.99 BIOLOGICAL SCIENCES/LIFE SCIENCES, OTHER
30.01 BIOLOGICAL AND PHYSICAL SCIENCES
30.10 BIOPSYCHOLOGY

PSYCHOLOGY

- 801 PSYCHOLOGY, COMBINED**
42.01 PSYCHOLOGY, GENERAL
- 802 PSYCHOLOGY, EXCEPT CLINICAL**
42.03 COGNITIVE PSYCHOLOGY AND PSYCHOLINGUISTICS
42.04 COMMUNITY PSYCHOLOGY
42.07 DEVELOPMENTAL AND CHILD PSYCHOLOGY
42.08 EXPERIMENTAL PSYCHOLOGY
42.09 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
42.11 PHYSIOLOGICAL PSYCHOLOGY/PSYCHOBIOLOGY
42.16 SOCIAL PSYCHOLOGY
42.17 SCHOOL PSYCHOLOGY
42.99 PSYCHOLOGY, OTHER
51.2301 ART THERAPY
51.2303 HYPNOTHERAPY
51.2705 PSYCHOANALYSIS
- 803 CLINICAL PSYCHOLOGY**
42.02 CLINICAL PSYCHOLOGY

SOCIAL SCIENCES

- 901 AGRICULTURAL ECONOMICS**
01.0101 AGRICULTURAL BUSINESS AND MANAGEMENT, GENERAL
01.0102 AGRICULTURAL BUSINESS/AGRIBUSINESS OPERATIONS
01.0103 AGRICULTURAL ECONOMICS
- 902 ANTHROPOLOGY (CULTURAL AND SOCIAL)**
45.02 ANTHROPOLOGY
45.03 ARCHAEOLOGY
- 903 ECONOMICS**
45.06 ECONOMICS
52.06 BUSINESS/MANAGERIAL ECONOMICS
- 904 GEOGRAPHY**
45.0701 GEOGRAPHY
45.0702 CARTOGRAPHY
- 905 HISTORY AND PHILOSOPHY OF SCIENCE**
45.0804 HISTORY AND PHILOSOPHY OF SCIENCE
- 906 LINGUISTICS**
16.0102 LINGUISTICS
- 907 POLITICAL SCIENCE/PUBLIC ADMINISTRATION**
44.04 PUBLIC ADMINISTRATION
44.05 PUBLIC POLICY ANALYSIS
44.99 PUBLIC ADMINISTRATION AND SERVICES, OTHER
45.09 INTERNATIONAL RELATIONS AND AFFAIRS
45.10 POLITICAL SCIENCE AND GOVERNMENT

- 908 SOCIOLOGY**
45.05 DEMOGRAPHY AND POPULATION STUDIES
45.11 SOCIOLOGY

909 SOCIOLOGY/ANTHROPOLOGY

- 910 SOCIAL SCIENCES, N.E.C.**
04.03 CITY/URBAN, COMMUNITY, AND REGIONAL PLANNING
04.07 ARCHITECTURAL URBAN DESIGN AND PLANNING
05 AREA, ETHNIC, AND CULTURAL STUDIES
30.11 GERONTOLOGY
43.01 CRIMINAL JUSTICE AND CORRECTIONS
44.02 COMMUNITY ORGANIZATION, RESOURCES, AND SERVICES
45.01 SOCIAL SCIENCES, GENERAL
45.04 CRIMINOLOGY
45.12 URBAN AFFAIRS/STUDIES
45.99 SOCIAL SCIENCES, OTHER

HEALTH FIELDS (SEE ALSO 103)

- 701 ANESTHESIOLOGY**
51.1604 NURSING ANESTHETIST (POST-R.N.)
- 702 CARDIOLOGY**
- 703 ONCOLOGY/CANCER RESEARCH**
- 704 ENDOCRINOLOGY**
- 705 GASTROENTEROLOGY**
- 706 HEMATOLOGY**
- 707 NEUROLOGY**
26.0608 NEUROSCIENCE
- 708 OBSTETRICS AND GYNECOLOGY**
- 709 OPHTHALMOLOGY**
51.1701 OPTOMETRY (O.D.)
- 710 OTORHINOLARYNGOLOGY**
- 711 PEDIATRICS**
- 712 PREVENTIVE MEDICINE AND COMMUNITY HEALTH**
51.22 PUBLIC HEALTH
51.2202 ENVIRONMENTAL HEALTH
- 713 PSYCHIATRY**
51.1610 NURSING, PSYCHIATRY/MENTAL HEALTH (POST-R.N.)
- 714 PULMONARY DISEASE**
- 715 RADIOLOGY**
26.0611 RADIATION BIOLOGY/RADIOBIOLOGY
- 716 SURGERY**
- 717 CLINICAL MEDICINE, N.E.C.**
51.1399 MEDICAL BASIC SCIENCES, OTHER
51.1201 MEDICINE (M.D.)
51.14 MEDICAL CLINICAL SCIENCES (M.S., Ph.D.)
51.19 OSTEOPATHIC MEDICINE (D.O.)
51.21 PODIATRY (D.P.M., D.P., Pod.D.)
- 718 DENTAL SCIENCES**
51.04 DENTISTRY (D.D.S., D.M.D.)
51.05 DENTAL CLINICAL SCIENCES/GRAD. DENTISTRY (M.S., Ph.D.)
- 719 NURSING**
51.16 NURSING
(EXCLUDING 51.1610, NURSING, PSYCHIATRY/MENTAL HEALTH—SEE 713, AND 51.1604 NURSING ANESTHETIST—SEE 701)
- 720 PHARMACEUTICAL SCIENCES**
51.20 PHARMACY
- 721 VETERINARY SCIENCES**
51.24 VETERINARY MEDICINE (D.V.M.)
51.25 VETERINARY CLINICAL SCIENCES (M.S., Ph.D.)
- 722 HEALTH-RELATED, N.E.C.**
31.0505 EXERCISE SCIENCE/PHYSIOLOGY AND MOVEMENT STUDIES
51.2306 OCCUPATIONAL THERAPY
51.2308 PHYSICAL THERAPY
51.2399 REHABILITATION/THERAPEUTIC SERVICES, OTHER
51.2704 NATUROPATHIC MEDICINE
51.99 HEALTH PROFESSIONS AND RELATED SCIENCES, OTHER
- 723 COMMUNICATION DISORDERS SCIENCES**
51.02 COMMUNICATION DISORDERS SCIENCES AND SERVICES
51.0201 COMMUNICATION DISORDERS, GENERAL
51.0202 AUDIOLOGY/HEARING SCIENCES
51.0203 SPEECH-LANGUAGE PATHOLOGY
51.0204 SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

N.E.C. = not elsewhere classified

REV. 10-99

LIST OF DOCTORATE-GRANTING AND MASTER'S-GRANTING INSTITUTIONS

Technical Table II-1. Doctorate-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
Alabama		California, continued	
001002 H L	Alabama A&M University	001313	L University of Calif, Davis
008695 L	Auburn University	001316	L University of Calif, Riverside
	Graduate School (Main Campus)	001317	L University of Calif, San Diego
	Graduate School at Montgomery		Graduate School
001052	University of Alabama at Birmingham, The		School of Medicine
	Graduate School	001319	L University of Calif, San Francisco
	School of Medicine	001320	L University of Calif, Santa Barbara
001055	University of Alabama in Huntsville, The	001321	L University of Calif, Santa Cruz
001051	University of Alabama, The	001314	L University of California, Irvine
001057	University of South Alabama		College of Medicine
	College of Medicine		Graduate School
	Graduate School	001315	L University of California, Los Angeles
Alaska			Graduate School
			School of Medicine
029094 L	University of Alaska Fairbanks	001216	University of La Verne
Arizona		010395	University of San Diego
		001328	University of Southern California
			Graduate School
001081	Arizona State University		School of Medicine
001082	Northern Arizona University	001329	University of the Pacific
001083 L	University of Arizona	008846	Wright Institute
	College of Medicine	Colorado	
	Graduate School	001348	Colorado School of Mines
Arkansas		001350	L Colorado State University
		008717	University of Colorado
001090	Arkansas State University		Graduate School at Boulder
001109	University of Arkansas - Med Sci Campus		Graduate School at Colorado Springs
001108 L	University of Arkansas Main		Graduate School at Denver
001101	University of Arkansas at Little Rock		Health Sciences Center
California		001371	University of Denver
		001349	University of Northern Colorado
001117	Azusa Pacific University	Connecticut	
001122	Biola University		
009844	CA School Prof Psychology-Alameda	001416	University of Bridgeport
011881	Calif Sch of Prof Psych - Fresno	008718	University of Connecticut
010013	Calif Sch of Prof Psych - Los Angeles		Graduate School
011117	Calif Sch of Prof Psych - San Diego		Health Center
012154	California Institute of Integral Studies	001422	University of Hartford
001131	California Institute of Technology	001424	Wesleyan University
001139	California State University, Long Beach	001426	Yale University
000166	Charles R. Drew Univ of Medicine & Sci		Graduate School
001169	Claremont Graduate School		School of Medicine
029092	Fielding Institute, The		School of Nursing
001200	Fuller Theological Seminary	Delaware	
001205	Golden Gate University		
001218	Loma Linda University	001431	L University of Delaware
	Graduate School	District of Columbia	
	School of Medicine		
029225	Pacific Graduate School of Psychology	001434	American University
001264	Pepperdine University	001437	Catholic University of America
010441	RAND Graduate School of Policy Studies	001444	George Washington University
001151	San Diego State University		Graduate School
001326	Santa Clara University		School of Medicine and Health Sciences
001305	Stanford University	001445	Georgetown University
	Graduate School		Graduate School
	School of Medicine		School of Medicine
001158	US International University	001448 H	Howard University
001310	US Naval Postgraduate School		College of Medicine
001312 L	University of Calif, Berkeley		

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Technical Table II-1. Doctorate-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
District of Columbia, continued		Illinois, continued	
	Graduate School	001737	Northern Illinois University
	Florida	001739	Northwestern University Graduate School Medical School
001480 H L	Florida A&M University	009800	Rush University
001481	Florida Atlantic University	001758	Southern Illinois Univ at Carbondale
001469	Florida Institute of Technology	001775 L	Univ of Illinois at Urbana-Champaign
009635	Florida International University	001774	University of Chicago Graduate School
001489 L	Florida State University	001776 L	University of Illinois at Chicago
001509	Nova Southeastern University	009333	University of Illinois at Springfield
003954	University of Central Florida		Indiana
001535 L	University of Florida College of Medicine College of Nursing Graduate School	001786	Ball State University
001536	University of Miami Graduate School School of Medicine	001807	Indiana State University
001537	University of South Florida College of Medicine Graduate School	008731	Indiana University Graduate School-Bloomington Indiana University-Purdue University School of Dentistry School of Medicine
	Georgia	008732 L	Purdue University Graduate School Indiana Univ-Purdue Univ at Fort Wayne Purdue University Calumet
001559 H	Clark Atlanta University	001840	University of Notre Dame
001564	Emory University Graduate School School of Medicine		Iowa
008723	Georgia Institute of Technology	001855	Des Moines Univ-Osteopathic Med Ctr
001574	Georgia State University	001869 L	Iowa State University
005010	Institute of Paper Science & Technology	011113	Maharishi University of Management
001579	Medical College of Georgia	001892	University of Iowa College of Medicine Graduate School
008724	Mercer University Graduate School School of Medicine Southern School of Pharmacy	001890	University of Northern Iowa
029297 H	Morehouse School of Medicine		Kansas
001598 L	University of Georgia	001928 L	Kansas State University
	Hawaii	029001	University of Kansas Graduate School Medical Center
001610 L	University of Hawaii at Manoa Graduate School John A. Burns School of Medicine	001950	Wichita State University
	Idaho		Kentucky
001620	Idaho State University	001960	Spalding University
001626 L	University of Idaho	008744 L	University of Kentucky College of Medicine Graduate School
	Illinois	001999	University of Louisville Graduate School School of Medicine
029230	Chicago School of Prof Psych		Louisiana
001671	DePaul University	008745 L	Louisiana State University Medical Center at New Orleans School of Medicine in Shreveport The Graduate School in Baton Rouge
001659	Finch U of Hlth Sci/The Chicago Med Sch		
001691	Illinois Institute of Technology		
001692	Illinois State University		
001710	Loyola University of Chicago Graduate School Graduate School at the Medical Center Stritch School of Medicine		
001657	Midwestern University		

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Technical Table II-1. Doctorate-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
	Louisiana, continued		Michigan
	University of New Orleans	002238	Andrews University
002008	Louisiana Tech University	002243	Central Michigan University
002029	Tulane University	002290	L Michigan State University
	Graduate School	002292	Michigan Technological University
	School of Medicine	002307	Oakland University
	School of Public Health & Tropical Med	002323	University of Detroit Mercy
002031	Univ of Louisiana at Lafayette	009091	University of Michigan
002020	Univ of Louisiana at Monroe, The		Graduate School at Ann Arbor
002032 H	Xavier University of Louisiana		Graduate School at Dearborn
			Medical School at Ann Arbor
	Maine	002329	Wayne State University
			Graduate School
002053	L University of Maine	002330	School of Medicine
002050	University of New England		Western Michigan University
	College of Health Professions		
	College of Osteopathic Medicine		Minnesota
	Maryland	010337	Mayo Graduate School
		008761	L University of Minnesota
002077	Johns Hopkins University		Duluth School of Medicine
	Graduate School		Graduate School at Duluth
	School of Hygiene and Public Health		Graduate School at Minneapolis
	School of Medicine		Minneapolis Medical School
002078	Loyola College	025042	Walden University
029169	Uniformed Serv Univ of the Hlth Sciences		
002105	L Univ of Maryland - Baltimore County		Mississippi
002106 H	University of Maryland Eastern Shore	002410 H	Jackson State University
002103	L University of Maryland at College Park	002423	L Mississippi State University
002104	L University of Maryland, Baltimore	008764	University of Mississippi
			Graduate School
	Massachusetts		School of Medicine
002114	American International College	002441	University of Southern Mississippi
002128	Boston College		
002130	Boston University		Missouri
	Graduate School	029239	Forest Institute of Professional Psych
	School of Dentistry	002477	Kirkville College of Osteopathic Med
	School of Medicine	008766	Saint Louis University
	School of Public Health		Graduate School
002133	Brandeis University		School of Medicine
002139	Clark University	002474	University of Health Sciences, The
002155	Harvard University	002516	L University of Missouri-Columbia
	Graduate School of Arts & Sciences		Graduate School
	Harvard Medical School		School of Medicine
	School of Public Health	002518	L University of Missouri-Kansas City
002165	Mass College of Pharmacy/Allied Health	002517	L University of Missouri-Rolla
002178	L Massachusetts Institute of Technology	002519	L University of Missouri-St. Louis
002199	Northeastern University	002520	Washington University
002209	Smith College		Graduate School
002219	Tufts University		School of Medicine
	Graduate School		
	Sackler Sch of Grad Biomedical Sciences		Montana
	School of Medicine	002532	L Montana State University-Bozeman
	School of Nutrition	002536	University of Montana, The
008755	L University of Massachusetts		
	Univ of Massachusetts at Amherst		Nebraska
	Univ of Massachusetts at Worcester		
	University of Massachusetts Boston	002542	Creighton University
002210	University of Massachusetts Dartmouth		Graduate School
002161	University of Massachusetts Lowell		School of Medicine
002230	Woods Hole Oceanographic Institution		
002233	Worcester Polytechnic Institute		

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Technical Table II-1. Doctorate-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
Nebraska, continued		New York, continued	
006895	University of Nebraska Medical Center	008780	Long Island University
002565	University of Nebraska at Lincoln		Brentwood Center
002554	L University of Nebraska at Omaha		Brooklyn Center
	Nevada		C. W. Post Center
002569	University of Nevada Las Vegas	007026	Rockland Campus
002568	L University of Nevada, Reno	002780	Westchester Center
	Graduate School	008782	Mt. Sinai School of Medicine
	School of Medical Sciences		New School University
	New Hampshire	002784	New York Institute of Technology
002573	Dartmouth College		Graduate School
	Graduate School		New York College of Osteopathic Med
	School of Medicine		New York Medical College
002589	L University of New Hampshire	002785	Graduate School of Health Sciences
	New Jersey		New York University
008770	Fairleigh Dickinson University		Graduate School
	Florham-Madison Campus	008784	School of Medicine
	Teaneck-Hackensack Campus	002796	Wagner Graduate School of Public Service
002621	New Jersey Institute of Technology	002803	Pace University
002627	Princeton University	002806	Polytechnic University
008771	L Rutgers the State Univ of New Jersey	002840	Rensselaer Polytechnic Institute
	Graduate School at Camden	002806	Rochester Institute of Technology
	Graduate School at New Brunswick	002840	SUNY Upstate Medical University
	Graduate School at Newark	002851	SUNY College of Env Science and Forestry
	School of Criminal Justice	009929	SUNY College of Optometry
002632	Seton Hall University	002839	SUNY Health Science Center at Brooklyn
002639	Stevens Institute of Technology	002835	SUNY at Albany
002620	Univ of Med and Dentistry of New Jersey	002836	SUNY at Binghamton
	Grad Sch of Biomed Sci/NJ Med School	009554	SUNY at Buffalo
	New Jersey Medical School at Newark		Graduate School
	New Jersey School of Osteopathic Med	009555	School of Medicine
	Robert Wood Johnson Medical School		SUNY at Stony Brook
	New Mexico		Graduate School
002654	New Mexico Institute of Mining and Tech	002823	School of Medicine
008773	L New Mexico State University	008789	Saint John's University
002663	University of New Mexico	003979	Syracuse University
	Graduate School	002807	Teachers College, Columbia University
	School of Medicine	002894	The Rockefeller University
	New York		University of Rochester
002666	Adelphi University		Graduate School
002887	Albany Medical College	002903	School of Medicine and Dentistry
008775	Alfred University		Yeshiva University
004063	CUNY Graduate Center		Albert Einstein College of Medicine
007022	CUNY Herbert H. Lehman College		Graduate School
002689	CUNY Hunter College		North Carolina
002699	Clarkson University	002920	Duke University
002707	Columbia Univ in the City of New York		Graduate School
008779	L Cornell University		School of Medicine
	Graduate School	002923	East Carolina University
	Graduate School of Medical Sciences		Graduate School
	Medical College	002905	School of Medicine
002722	Fordham University	002905 H L	North Carolina A&T State University
002732	Hofstra University	002972 L	North Carolina State University
		002974	Univ of North Carolina at Chapel Hill
			Graduate School
		002976	School of Medicine
		002978	Univ of North Carolina at Greensboro
			Wake Forest University
			Graduate School
			School of Medicine

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Technical Table II-1. Doctorate-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
North Dakota		Pennsylvania, continued	
009266	L North Dakota State University	003327	Slippery Rock University of Pennsylvania
008794	University of North Dakota	003371	Temple University Graduate School School of Medicine School of Pharmacy
Ohio		003278	Thomas Jefferson University
003009	Air Force Institute of Technology	003378	University of Pennsylvania Graduate School School of Medicine
008795	Antioch University	008815	University of Pittsburgh Graduate School School of Medicine
008796	Bowling Green State University	003388	Villanova University
003024	Case Western Reserve University Graduate School School of Medicine	029291	Widener University, All Campuses
003032	Cleveland State University	Rhode Island	
008799	Kent State University	003401	Brown University
007737	Medical College of Ohio	003414	L University of Rhode Island
008800	Miami University (OH)	South Carolina	
008802	L Ohio State University College of Medicine & Public Health Graduate School	003425	L Clemson University
008803	Ohio University	003438	Medical University of South Carolina
010923	Union Institute, The	008819	University of South Carolina Graduate School Medical School
012310	University of Akron	South Dakota	
008805	University of Cincinnati College of Medicine Graduate School	003470	South Dakota School of Mines and Tech
003127	University of Dayton	003471	L South Dakota State University
003131	University of Toledo	003474	University of South Dakota Graduate School School of Medicine
009167	Wright State University	Tennessee	
Oklahoma		003487	East Tennessee State University
008806	L Oklahoma State University	003506	H Meharry Medical College
008807	University of Oklahoma Graduate College Health Sciences Center	003510	Middle Tennessee State University
003185	University of Tulsa	003522	H L Tennessee State University
Oregon		003523	Tennessee Technological University
008856	Oregon Grad Inst of Science & Technology	003509	University of Memphis, The
004882	Oregon Health Sciences University	003530	L University of Tennessee at Knoxville
003210	L Oregon State University	006725	L University of Tennessee, Memphis
003216	Portland State University	003535	Vanderbilt University Graduate School School of Medicine
003223	University of Oregon	Texas	
Pennsylvania		004948	Baylor College of Dentistry
003237	Bryn Mawr College	004949	Baylor College of Medicine
003242	Carnegie Mellon University	003545	Baylor University
003256	Drexel University	003581	Lamar University
003258	Duquesne University Bayer School of Nat. & Env. Sciences Grad School of Liberal Arts & Sciences Graduate School of Pharmaceutical Sci School of Nursing	003604	Rice University
008810	Indiana University of Pennsylvania	003606	Sam Houston State University
003289	Lehigh University	003613	Southern Methodist University
003271	MCP Hahnemann University	003615	Southwest Texas State University
008813	L Pennsylvania State University College of Medicine Graduate School	003624	Stephen F. Austin State University
003352	Philadelphia Col of Osteopathic Med	032064	Texas A&M U Sys Health Science Center
003353	Philadelphia Coll of Pharmacy and Sci		

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Technical Table II-1. Doctorate-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
Texas, continued		West Virginia	
003632	L Texas A&M University	003815	Marshall University
003565	Texas A&M University-Commerce		Graduate School
003639	Texas A&M University-Kingsville		School of Medicine
003636	Texas Christian University	011245	West Virginia School of Osteopathic Med
003644	Texas Tech University	003827	L West Virginia University
	Graduate School		
	Health Science Center		Wisconsin
003646	Texas Woman's University	003863	Marquette University
009768	U of North TX Hlth Sci Ctr at Ft Worth	008296	Medical College of Wisconsin
011618	Univ of Texas Houston Hlth Sci Ctr	003895	L University of Wisconsin-Madison
003657	Univ of Texas M.D. Anderson Cancer Ctr		Graduate School
004952	Univ of Texas Med Branch at Galveston		Medical School
003660	Univ of Texas SW Medical Ctr at Dallas	003896	University of Wisconsin-Milwaukee
003659	Univ of Texas at San Antonio Hlth Sci Ct		
003652	University of Houston		Wyoming
003594	University of North Texas	003932	L University of Wyoming
003656	University of Texas at Arlington		
003658	University of Texas at Austin		Puerto Rico
009741	University of Texas at Dallas	010724	Caribbean Center for Advanced Studies
003661	University of Texas at El Paso	029268	Ponce School of Medicine
010115	University of Texas at San Antonio	003936	Pontifical Cath Univ of Puerto Rico, The
		003944	L Univ of Puerto Rico Mayaguez Campus
	Utah	007108	L Univ of Puerto Rico Rio Piedras Campus
012305	Brigham Young University	003945	L University of Puerto Rico Med Sci Campus
003675	University of Utah		
	Graduate School		
	School of Medicine		
003677	L Utah State University		
	Vermont		
003696	L University of Vermont		
	College of Medicine		
	Graduate School		
	Virginia		
008828	College of William and Mary		
010338	Eastern Virginia Medical School		
003749	George Mason University		
003714	H Hampton University		
003717	Institute of Textile Technology		
003721	James Madison University		
003728	Old Dominion University		
003745	University of Virginia		
	Graduate School		
	School of Medicine		
003735	Virginia Commonwealth University		
	Graduate School		
	Medical College of Virginia		
003754	L Virginia Polytechnic Inst and State Univ		
	Washington		
003798	University of Washington		
	Graduate School		
	School of Medicine		
	School of Public Health and Comm Med		
003800	L Washington State University		

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Technical Table II-2. Master's-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
Alabama		Delaware	
001005 H	Alabama State University	001428 H L	Delaware State University
001020	Jacksonville State University		District of Columbia
001049	Troy State University in Montgomery		
001050 H	Tuskegee University	001443	Gallaudet University
001004	University of Montevallo	029100 H L	University of the District of Columbia
Alaska		Florida	
029095	University of Alaska Anchorage	001479	Embry-Riddle Aeronautical University
001065	University of Alaska Southeast	003955	University of West Florida
Arkansas		Georgia	
001092	University of Central Arkansas	001552	Augusta State University
California		001602	Georgia College and State University
001143	Calif Poly State Univ. San Luis Obispo	001572	Georgia Southern University
001141	Calif State Univ. Dominguez Hills	001601	State University of West Georgia
001137	Calif State Univ. Fullerton	001599	Valdosta State University
001140	Calif State Univ. Los Angeles		Illinois
001150	Calif State University at Sacramento	001641	Bradley University
001157	Calif State University, Stanislaus	001694	Chicago State University
001144	California State Poly University, Pomona	001674	Eastern Illinois University
007993	California State Univ. Bakersfield	009145	Governors State University
001142	California State Univ. San Bernadino	001693	Northeastern Illinois University
001146	California State University, Chico	001749	Roosevelt University
001147	California State University, Fresno	001759	Southern Illinois Univ at Edwardsville
001138	California State University, Hayward	001780	Western Illinois University
001153	California State University, Northridge		Indiana
001164	Chapman University	001788	Butler University
001196	Dominican College of San Rafael	001822	Indiana Wesleyan University
001171	Harvey Mudd College	001830	Rose-Hulman Institute of Technology
001149	Humboldt State University	001795	University of Evansville
004484	John F Kennedy University	001832	University of Saint Francis
011649	Loyola Marymount University	001842	Valparaiso University
011460	National University		Iowa
001249	Occidental College	001860	Drake University
001257	Pacific States University	001873	Loras College
001154	San Francisco State University	001876	Marycrest International Univ
001155	San Jose State University		Kansas
001156	Sonoma State University	001927	Emporia State University
001322	University of Redlands	001915	Fort Hays State University
001325	University of San Francisco	001926	Pittsburg State University
Colorado		001949	Washburn University of Topeka
023562	National Technological University		Kentucky
Connecticut		001963	Eastern Kentucky University
001378	Central Connecticut State University	001976	Morehead State University
001379	Connecticut College	001977	Murray State University
001402	Quinnipiac College	002002	Western Kentucky University
002804	Rensselaer at Hartford		Louisiana
001406	Southern Connecticut State University	002006 H	Grambling State University
001409	St. Joseph College		
001414	Trinity College		
001397	University of New Haven		
001380	Western Connecticut State University		

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Technical Table II-2. Master's-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

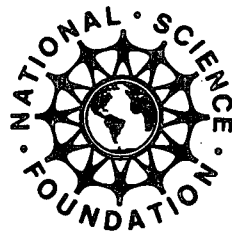
FICE code	State, institution, and school	FICE code	State, institution, and school
Louisiana, continued		Nebraska	
002016	Loyola University New Orleans	002551	University of Nebraska at Kearney
002017	McNeese State University		New Hampshire
002005	Nicholls State University		
002021	Northwestern State University		
002024	Southeastern Louisiana University	002586	Rivier College
002025 H L	Southern University A & M, All Campuses		New Jersey
Maryland			
002068 H	Coppin State College	002642	College of New Jersey, The
002072	Frostburg State University	002622	Kean University
002076	Hood College	002616	Monmouth University
002083 H	Morgan State University	002617	Montclair State University
002099	Towson State University	002625	William Paterson U of NJ
002102	University of Baltimore		New Mexico
002108	Washington College		
Massachusetts		008772	Eastern New Mexico University
		002653	New Mexico Highlands University
			New York
002117	Anna Maria College		
002118	Assumption College		
002183	Bridgewater State College	004766	CUNY Baruch College
002185	Framingham State College	002687	CUNY Brooklyn College
029365	MGH Institute of Health Professions	002688	CUNY City College
002192	Mount Holyoke College	029040	CUNY College of Staten Island
002188	Salem State College	002693	CUNY John Jay College of Crim Justice
002226	Western New England College	002690	CUNY Queens College
002229	Williams College	002704	College of New Rochelle
002190	Worcester State College	002705	College of St Rose
		002710	Cooper Union
		002737	Iona College
		002739	Ithaca College
		002758	Manhattan College
002259	Eastern Michigan University	002765	Marist College
002268	Grand Valley State University	002788	Niagara University
002301	Northern Michigan University	008786	Russell Sage College
		002841	SUNY College at Brockport
		002842	SUNY College at Buffalo
		002844	SUNY College at Fredonia
		002845	SUNY College at Geneseo
		002847	SUNY College at Oneonta
		002848	SUNY College at Oswego
		002849	SUNY College at Plattsburgh
		002850	SUNY College at Potsdam
		006792	SUNY Inst of Technology at Utica-Rome
		002846	SUNY at New Paltz
		002813	Sarah Lawrence College
		002817	St. Bonaventure University
		002889	Union College
		002895	Vassar College
		002899	Wagner College
			North Carolina
		002906	Appalachian State University
		002950 H	North Carolina Central University
		002975	Univ of North Carolina at Charlotte
		002984	University of North Carolina/Wilmington
		002981	Western Carolina University
			Ohio
002531	Montana Tech of the Univ of Montana	003050	John Carroll University

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Technical Table II-2. Master's-granting institutions in the fall 1999 NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering

FICE code	State, institution, and school	FICE code	State, institution, and school
Ohio, continued		Texas, continued	
003144	Xavier University	003647	Trinity University
003145	Youngstown State University	013231	University of Houston - Victoria
Oklahoma		011711	University of Houston, Clear Lake
003154	East Central University	029164	University of Texas at Tyler
003161	Northeastern State University	009930	University of Texas of the Permian Basin
003181	Southwestern Oklahoma State University	003599	University of Texas-Pan American
Oregon		003578	University of the Incarnate Word
003219	Southern Oregon State College	003665	West Texas A&M University
003224	University of Portland	Vermont	
Pennsylvania		003686	Goddard College
003315	Bloomsburg University of Pennsylvania	003690	Marlboro College
003238	Bucknell University	003691	Middlebury College
003316	California University of Pennsylvania	Virginia	
009234	Clarion University of Pennsylvania	003732	Radford University
003320	East Stroudsburg Univ of Pennsylvania	003744	University of Richmond
003321	Edinboro University of Pennsylvania	003764 H L	Virginia State University
003266	Gannon University	Washington	
003322	Kutztown University of Pennsylvania	003771	Central Washington University
003324	Mansfield University of Pennsylvania	003775	Eastern Washington University
003296	Marywood University	003778	Gonzaga University
003325	Millersville University of Pennsylvania	003785	Pacific Lutheran University
003326	Shippensburg University of Pennsylvania	003794	Saint Martin's College
003367	St Joseph's University	003790	Seattle University
003370	Swarthmore College	003799	Walla Walla College
003384	University of Scranton	003802	Western Washington University
003328	West Chester University of Pennsylvania	003804	Whitworth College
003394	Wilkes University	West Virginia	
Rhode Island		003818	University of Charleston
003407	Rhode Island College	003825	West Virginia University Institute of Te
South Carolina		Wisconsin	
003428	College of Charleston	003868	Milwaukee School of Engineering
003434	Furman University	003917	University of Wisconsin-Eau Claire
003456	Winthrop University	003899	University of Wisconsin-Green Bay
Tennessee		003919	University of Wisconsin-La Crosse
003478	Austin Peay State University	009630	University of Wisconsin-Oshkosh
003490 H	Fisk University	003921	University of Wisconsin-Platteville
003529 L	University of Tennessee at Chattanooga	003923	University of Wisconsin-River Falls
Texas		003924	University of Wisconsin-Stevens Point
003537	Abilene Christian University	003915	University of Wisconsin-Stout
003541	Angelo State University	003926	University of Wisconsin-Whitewater
003592	Midwestern State University	Guam	
003630 H L	Prairie View A&M University	003935	University of Guam
003623	St. Mary's University		
003625	Sul Ross State University		
003631	Tarleton State University		
011854	Tarleton University System Center		
011161	Texas A&M University-Corpus Christi		
003642 H	Texas Southern University		

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EFF-089 (3/2000)