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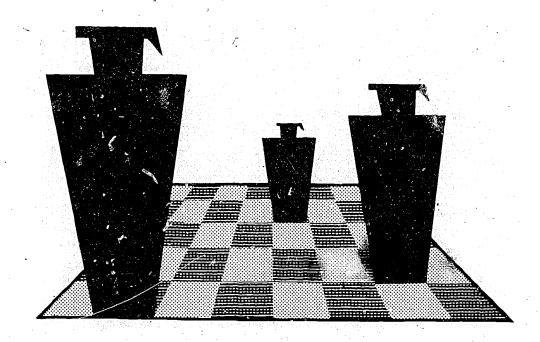
ABSTRACT

A report on the placement status of engineering and technology graduates in 1972 is presented on the basis of survey data obtained from registrars and placement directors of institutions in the U. S. The numbers of graduates were: (1) 44,190 bachelor's, 17,003 master's, 353 engineer, and 3,774 doctorate degrees in engineering, and (2) 22,578 associate degrees, 6,768 certificates, 5,487 bachelor's, and 68 post-baccalaureate degrees in technology. Analyses are made in connection with placement status at each degree level, major curricula of favorable and unfavorable job climate, expected graduate shortage, student trends in schools accredited by the Engineers' Council for Professional Development (ECPD schools) and non-accredited schools, starting salaries, and chronological comparison. Job prospects for next year's graduates are characterized as excellent or good. Graduates of ECPD schools are more likely to continue further study in comparison with those from non-ECPD schools. The strongest demand is in civil engineering, followed by mechanical engineering; strong demand of women and minority members is found in all branches. Also included are statistical tables of varying-degree graduates versus institutions and curricula. (CC)

ENGINEERING AND TECHNOLOGY GRADUATES

1972

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A REPORT BY THE

ENGINEERING MANPOWER COMMISSION

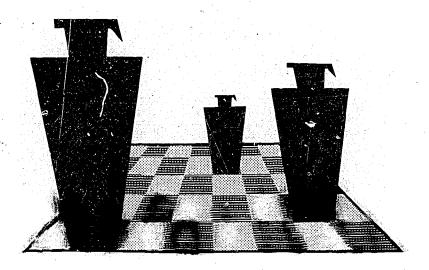
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ENGINEERS JOINT COUNCIL 345 East 47th Street New York, New York 10017

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ENGINEERING AND TECHNOLOGY GRADUATES 1972



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DECEMBER 1972

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ENGINEERS JOINT COUNCIL

Engineers Joint Council (founded in 1941 and incorporated in 1958) is a federation of engineering societies whose general objective is to advance the art and science of engineering in the public interest.

In furtherance of this general objective the Council shall:

- a) Provide for regular and orderly communications among its member societies.
- b) Act as an advisory and coordinating agency for member society activities, as mutually agreed.
- c) Organize and conduct forums for the consideration of problems of expressed concern to member societies.
- d) Identify needs and opportunities for service in the engineering community and inform the concerned engineering institutions.
- e) Recommend appropriate programs of studies and research to engineering institutions and especially to member societies.
- f) Undertake, in accordance with policies mutually agreed to, spefic activities or projects that the member societies acting individually could not accomplish as well.
- g) Represent the member societies when they deem such joint representation desirable.



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OF ENGINEERS JOINT COUNCIL

The Engineering Manpower Commission was organized in 1951 as part of Engineers Joint Council, to serve as a focus for national technological manpower problems.

The Commission's program is carried out through the collection, analysis, and publication of significant data on engineering manpower, as well as the development of programs and policies designed to acquaint the public with the importance of engineering to the national welfare.

The Engineering Manpower Commission is charged with the following responsibility:

"To engage in studies and analyses of the supply, demand, and utilization of engineering and technical manpower; to make recommendations, conduct programs, and develop reports concerning these aspects of engineering and technical manpower; and to carry on such other programs in the field of manpower as may be authorized by the Board of Directors of EJC."

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The surveys on which this report is based were conducted by Carol Iceland of the Engineers Joint Council staff. Miss Iceland also prepared the main degree tables and the degree section of the report. Christine Vachula typed the text and data tables for the placement section of the report. The overall project was under the general direction of John D. Alden.

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THE PLACEMENT STATUS OF ENGINEERING AND TECHNOLOGY GRADUATES 1972

THE OVERALL PICTURE

1972 began under the shadow of economic recession and comparatively high unemployment rates prevailing throughout 1971, but by June a definite upturn in college recruiting was evident. Statistically speaking, the placement situation for the class of 1972 was quite similar to that of the previous year, but the change in the job climate was almost universally attested to by placement officers in the nation's engineering schools. The EMC survey this year included a new question sheet on which placement directors were asked to give their observations and opinions on the current and future outlook for engineering graduates, and the comments received from 138 schools all over the country have been most helpful in interpreting the bare statistics.

Of the placement directors who replied, 64 percent said the employment situation for new graduates was better this year than last, 27 percent thought it was about the same, and only nine percent felt it was not as good. In response to a similar question about job prospects for experienced alumni, these same officials were almost as positive - 62 percent saw the picture as better, 32 percent noted no change, and six percent thought it was not as favorable as last year. The following comments are typical of those received in response to a request for the views of placement directors with respect to the 1972 employment situation:

Alabama.

We experienced no difficulty in placing new engineering graduates.

Arizona.

Virtually all foreign students carry a strong presumption of non-employability for several reasons: (a) typically, there is an 18 month limit to their employment, (b) security clearance considerations, (c) negative employer experience in hiring aliens, (d) statutory limitations.

Arizona.

Improving - some employers are recruiting on campus during summer which is unusual.

California.

Our generalized engineering programs would produce jobs if graduates expectations were in line with reality.

California.

Fewer companies visiting campus caught students by surprise and created a handicap. Actually, by contacting companies students found employment picture same or better than last year.

Connecticut.

Engineering jobs are available but graduate has to go out looking (except for top men who still have a choice). Employers are more specific on type of job opening. Graduate opportunities come in regularly.

Connecticut.

Opportunities are available. Much depends on personal intent of studentresponsibility of officials to supply contacts to students-students again must sell themselves.

Florida.

Appear to be substantially more employer inquiries than graduates.

Georgia.

We have experienced a significant turn-around from a very dormant market during the wage-price freeze to a reasonable balance between supply and demand by late spring.

Hawaii.

Reduction in force at local U.S. Government activities and in hiring by State resulted in more difficult situation. This was somewhat offset by increased recruiting activity by mainland aerospace employers.

Indiana.

A number of firms got the green light on hiring about July (after secondquarter profits were studied.)

Louisiana.

Much more activity on the write-in basis than on the campus interview situation is developing. This kind of opportunity requires more staff and paper work, but works to the advantage of our senior, who has always been willing to make the first move (and the second, and the next) toward the employer, either in person or on paper.

Massachusetts. Despite the depressed job market for engineers over the last two years their prospects for employment are as good as any other discipline and a bit better than most.

Michigan.

Number of interview visits dropped 21% from last year, but there still seem to be enough jobs available for those who get out and hustle for them.

Missouri.

Have had a substantial number of requests for last minute referrals during the past two months.

Nebraska.

There was a sharp increase in hiring after the data was collected (on graduation day) resulting in a substantial reduction in the number still seeking employment.

New Jersey:

Job listings for new graduates have increased in 2nd quarter of 1972.

New Jersey.

Generally better job market and getting stronger although companies Will continue to be very selective and cautious. Students who plan well should not have any difficulty.

New Mexico.

It was more difficult to place students at the MS & PhD level than the BS level. All individuals who wanted a job were placed, except noncitizens. Those accepting employment averaged at least 3 job offers. The range for those with a higher grade point index was from 5 to 15 offers.

New York.

Employers seem to largely meet their need for new employees from applications submitted by returning veterans and experienced graduates. Campus recruitors for new graduates are considering only outstanding candidates.

New York.

With improvement in job situation since May, the placement of the present class is gradually improving. Many students worked on their own placement this year and since graduation the Placement Office has lost touch with the final outcome.

New York.

The job situation has definitely bottomed out.

North Dakota.

No one degree area was good or oad, most employers are locking for quality. Consequently the demand is for the BEST students regardless of curriculum or degree, with the demand being about the same across the board for our institution.

Ohio.

In comparison with other BA graduates not in engineering, the employment situation for engineers is excellent. There has been a drop, though small, in the demand for our electrical graduates.

Ohio.	A general observation would be that more employers are now seeking a specific individual for a specific position rather than just hiring qualified engineers.	Tennessee.	There appears to be more interest in graduates with 3 to 5 years experience than in recent graduates. They have had their "break-in" period and are ready to perform.
Ohio.	Although graduates must interview more and "sell" harder, employment opportunities are still in evidence.	Tennessee.	The job market improved some in 1972, but the boom supply of graduates and backlog of alumni and military returnees meant it was very competitive.
Oklahoma.	To the best of our knowledge all of our students got positions.	Texas.	Signs show improvement in the offing,
Pennsylvania.	Employers have been ultra selective luring the past two years. Some signs	el.	but present situation is much the same as last year.
, o	of loosening but these were not timely enough to make great impact on Class of '72. Employers have been	Texas.	There is considerable emphasis now on minority hiring.
•	unwilling to compromise specifications of candidates with available applicants (much like the market for alumni in '70 & '71.)	Utah.	To the best of our knowledge we have placed all graduates at all levels, and in all departments, who were seeking jobs.
Pennsylvania.	Career openings are developing later for the class of 1972 than during previous years. Things are happening in June and July and probably will	Virginia.	It was much later in the year before the men were placed than it used to be. Fewer companies came to interview than in previous years. However, by
•	continue in August and later - that would have developed in April and May during the 1960s.		the end of the school year all who wanted employment obtained it.
Pennsylvania.	Very little activity until about February 1. Demand has been growing	Washington.	Definitely improving.
•	for most engineers since then.	Wisconsin.	A few of our graduates are still seeking employment but most had
Pennsylvania.	Employers do not indicate as many opportunities or openings for		accepted jobs by graduation.
	research and development as they have in the past.	Wisconsin.	Seems to have bottomed out in January. Now improving steadily.
South Dakota.	Attitude and personal appearance still are major factors in determining the		
	placement status of an individual.		

On the basis of statistics plus comments it appears that the strongest demand for graduates of the major curricula was in civil engineering, followed by mechanical engineering. Other curricula where demand was noticeably strong were the power option in electrical engineering, mining engineering, petroleum engineering, naval architecture and marine engineering, textile engineering, and welding engineering.

Demand was relatively weak in aerospace, agricultural, architectural, ceramic, chemical, and metallurgical engineering, and in the engineering sciences. Some placement directors singled out the doctorate level as an area of reduced demand. Interestingly enough, several also included such "glamor" curricula as biomedical, ocean, and environmental engineering in their list of those where demand was weak, especially when these designations were applied to bachelor's degrees. Several comments indicated a distrust of some of the new programs as "gimmicky" or too much of an unknown quantity in comparison with the traditional basic curricula. Electrical and industrial engineering, both with large numbers of graduates, seemed to have uneven prospects this year, being listed as in strong demand at some schools, weak at others, but unexceptional at most. Women and minority members were reported to be in strong demand in all branches of engineering.

The directors were overwhelmingly of the opinion that the employment picture would continue to improve. Only four out of the entire group thought that it would be worse next year, whereas 82 percent thought the employment situation for 1973 would be better than this year and 15 percent about the same. In general, job prospects for next year's graduates were characterized as excellent or good. Among the major curricula, civil and mechanical engineers were expected to be in the strongest demand while electrical, chemical, and industrial engineers were seen as strong at some schools and less so at others. Of the smaller curricula the following were anticipated to be in particularly good demand: electrical power

option, marine and naval architecture, mining, petroleum, and (with some dissenters) environmental on the other hand aerospace, architectural, biomedica' etallurgical engineering, and engineering physics, and as potentially weak. Some softness was also anticipated in computer science at several schools. Three or four placement directors felt that all new, hybrid, and specialized curricula were less likely to be in demand than the traditional fields. In general, the same curricula that were seen as particularly strong or weak this year were believed to have similar prospects next year. The following comments are representative of the placement directors' views of 1973:

California. Should be better and more opportunities for those who graduate. Enrollments are down in all categories.

California. I expect it to improve. Demand up and graduates about same. My students are being more selective and many will not interview employers in defense or aerospace.

California. Considerably better, particularly at the BS level. Early scheduling indicates more companies making campus recruiting visits.

Connecticut. Locally there is increasing demand.

Connecticut. Top students will not have too much trouble - just less of a choice than before. Instead of 4 or 5 offers, one or two. Bottom 10% academically will have to look more actively.

Connecticut. The only concrete evidence to employment that I can compare - company recruiting has picked up substantially. Based on our recruiting program and company correspondence - I feel job opportunities will pick up for now as well as next year's June graduates.

Florida. Very good - continuing to be more opportunities than graduates.

Georgia. 1973 is shaping up to be the best year since 1969. Supply and demand will be

about balanced with considerable competition for the top half of the class; the less attractive candidates will still be struggling -- selling rather than buying -- but almost all will get good jobs. There are some "if's" -- the economy, inflation and, of course the election. Possibly some employers will look at the upcoming supply demand situation and attempt to hire against projected needs as was done in 1965 and 1966. This could increase demand beyond immediate needs.

Idaho. Continually improving. Already more interview dates on calendar for 1972-1973 than for all of 1971-72.

I feel the situation will improve over 1972-but that a greater demand will occur in 1974 as new plants are about to be built, per the companies.

At present we are placing all graduates that we have records or complete knowledge of. Next year should show a demand exceeding our supply.

More nearly stabilized; somewhat more on-campus interviewing even more write-in or call-in requests. Each student will need to mount a job campaign in order to achieve the choice he should be afforded. This has not been necessary during late 1960's, but is of benefit to the student under all conditions.

ERIC

Indiana.

Kansas.

Louisiana.

Louisiana.

Space projects reactivation should help the people previously released in such areas.

In such ar

Massachusetts. Continued improvement over 1971.

Michigan.

Expect number of jobs to be about the same, but campus recruiting will continue to fall off. Only 1/2 as many visits booked for next year as we had at this time last year.

Missouri.

Employers will have more jobs for new graduates, but will continue a very conservative pattern of candidate selection.

New Jersey.

Good but certainly it will be influenced by the military needs and the political climate. Frankly wish we had more candidates.

New Mexico.

Unless there is a dramatic change in the economic picture, all graduates who want work will be placed. Our greatest difficulty would be with those having a hybrid degree, e.g., B.S. in Mechanical & Business Administration; and those dealing specifically with environment. Looks very encouraging with the organization and counseling provided by the Engineering College, we do not anticipate a declining employment situation.

New York.

There will be employment opportunities for graduating students with good records, who are properly motivated for employment.

North Dakota.

As employers realize how limited a number of young people are entering the field, the demand will increase.

North Dakota.

Indicators show a definite increase in the number of openings and the amount of recruiting. With the supply still high, competition will be keen and employers will still screen very closely for the best qualified people.

Ohio.

I do not anticipate much increase in on-campus recruiting. There may be more offers from those recruiting. This was the case this year as fewer recruiters came, but made more offers.

Ohio.

Significant improvements as economy stabilizes and improves.

Ohio.

Good employment market for most disciplines.

Oklahoma.

To date, the number of employers scheduling campus visits exceeds the 1971-1972 figure; therefore, it is assumed the employment situation will improve.

Pennsylvania.

Continued improvement in number and variety of jobs. Will continue to be tight for students with low grades or little or no career perspective. Notice more students in Junior year planning job hunting strategy to be implemented during senior year. Employers seemed to be pointing toward 10-20% increase in hiring levels next year. Will still be significantly below quotas of late 60's and we will probably never see a return of this condition.

Pennsylvania.

Selectivity probably will continue to be high.

Pennsylvania.

Increased demand of 10 to 15% for all types of engineers. There is an expected decrease in the number of engineering graduates and it is expected that employers will react to this.

Pennsylvania.

Steady growth of opportunities.

South Dakota.

A slight increase in number of companies interviewing on campus. With fewer seniors graduating, more job opportunities per senior but early acceptances will still be a significant factor. The needs of industry and government will be increasing as the economy picks up and as a result, demand for engineers will pick up accordingly.

Tennessee.

Jobs should be more plentiful - many employers have not hired for 2 or 3 years and are beginning to feel the pinch of personnel shortage. Not much action until after the November election, however.

Tennessee.

Believe there may be a continued decline in campus interviews, but an increase in listing of individual jobs via correspondence or telephone.

Texas.

It appears that there will be a 10 to 15 percent increase in next year's recruiting and employment as far as this University is concerned.

Utah.

We expect improvement in the number of job offers per graduate. Anticipate continued increases in salary offers.

Virginia.

We see an improving employment situation as we move into and through 1973. Most key economic indicators point to an increase in activity on many fronts. Our contacts with employer representatives indicate that they will be seeking a greater number of college and trained employees next year. We do not see indicators yet of any great increase in the demand for PhD's. This situation will probably be with us for several more years.

The picture four to five years from now is almost universally seen as good to outstanding. Not one director thought it would be unsatisfactory in any way. Many pointed to current declines in enrollment as lea' inevitably to a shortage of graduates, and therefore excell prospects, in the years ahead. The comments below represent typical replies to this part of the questionnaire:

Alabama. There will be a terrific shortage of engineering graduates in 1976-77, if trend continues of a drop in engineering enrollments. Current publicity on lack of jobs for engineer-

ing talent in my opinion is misleading and should be corrected, otherwise I foresee crash programs required to meet engineering talent needed for the

1980's.

Arizona. Excellent opportunities. Shortage of graduates in some fields.

There should be plenty of jobs in

Arkansas. engineering 4-5 years from now. California.

Increased interest in jobs formerly unappealing to engineers but suited to their skills i.e. Planning. Also increased demand in these fields due to

availability of engineers.

California. Higher wages to get available engineering talent. Will go from oversupply to under-supply.

Connecticut. The demand for engineers should be stronger, with less graduates available. There will be an emphasis on new specialities relating to the new national goals in environment and urban problems.

Connecticut As far as technical people are concerned 4-5 years from now there will be a definite shortage of engineers which, of course, will increase job opportunities for those majors in that discipline.

Florida. Enrollment stable to slight increase (we have continued to grow even during these two relatively bad years). Employment situation very good. Shortages are already beginning to appear. Surely we are at the mercy of the popular press. The recent hiatus and attendant publicity has had serious deleterious effects from which we won't recover in 4-5 years.

Georgia.

By 1974-75 and beyond for several years, we probably will be back in the 1966-69 scramble again for engineers. Employers will be more careful where they place BS and MS engineers with emphasis on 2 and 4 year technology degree holders for the lower level positions. This will not have a serious effect on engineering employment but should make each position more pure and enjoyable to the graduate engineer.

Hawaii.

Improved. Emphasis to shift from military applications to engironmental control.

Idaho.

Shortage of engineers to fill available jobs.

Indiana.

Although I do not anticipate a return to the decade of the '60s I feel there will be a definite upswing, with the increasing demand for goods and services. If and when government funds become available, I anticipate a sharp increase in space technology.

Kansas.

Acute shortage by 1975. Action should be taken to inform present high school students of opportunities in engineering in order to meet anticipated demand.

Louisiana.

Sensational for the graduating senior because of the small input class sizes of 1970, 1971. I think the whole profession will profit by the reduced number of new graduates.

Massachusetts. Supply should not meet demand when the low enrollment classes are graduated. Four year engineering technology graduates will have a significant impact. Graduate engineers will not be underemployed in basically technology positions.

Massachusetts. Not like the mid-sixties but better than 1970-71, 1971-72 years. Some schools may tend, unfortunately, to



create impression that new areas which are only on the horizon now will be the major educational goals. Should not let basic engineering courses such as ME, EE, ChE, CE, etc. take a "back seat."

Missouri.

A 40% shortage of available new engineering graduates to meet the job demand based on current enrollments. We need more women and bl enrolling in engineer!" Mays must be found to Libour. engineering protession.

Nebraska.

Employment opportunities will be very high.

New Jersey.

Great need for engineers. I anticipate a shortage because needs will be up and present enrollments are declining. We must pay close attention to trends and shifts in needs.

New Mexico.

Now is the time for high school graduates to very seriously consider the future possibilities in engineering. I believe the profession will be more challenging. Based on the future, the engineering discipline has a better outlook for employment possibilities. The field should not be crowded and the engineer will be in demand.

New York.

Students will be enrolling in engineer-ing due to their interests rather than the demand for engineers. They should be better students and have greater interest in the profession which will improve their prospects for employment. As experienced engineers and veterans become re-established the demand for new graduates will improve. With reduced enrollments the demand for quality engineers will return soon.

New York.

It should be a seller's market for the freshmen entering this year since demand is already picking up and the input has declined nationwide.

North Carolina. Engineering graduates (except aerospace) will be in a much stronger position at the BS level and an improved position at the MS levelthe PhD will still be problematic.

North Dakota.

Projecting five years ahead, I see a renewal of the frantic demand we saw in the 60's. Supply will not meet the demand. Incoming students and high school seniors must be made aware of the projected opportunities that will persist when they receive their degrees five years from now.

Ohio.

With declining enrollments, I anticipate a shortage of candidates for the companies recruiting at my school. The market for our graduates should be much better than now, though it is good now. I am disturbed that the engineering profession has allowed the nationwide flood of negative publicity concerning engineering employment to go unchecked. This is the cause of declining enrollments and will result in the possibility of a shortage which creates too great expectations on the part of new engineers. This situation could again lead to a depressed market in future years as has been the case recently. There is no reason why the supply and demand for engineers cannot be leveled without these constant high and low periods brought on by certain special problem areas. A shortage market does nothing but harm to students and employers.

Ohio.

Local enrollment is closely following national trend, i.e. declining. Forecasts all point toward steadily improving economy which would indicate a strong demand and shortage of engineers in the mid to late 70's. Predict much higher utilization of 2-4 year technology personnel coupled with more emphasis on positions for M.S. engineering degrees.

Ohio.

Can honestly see an ongoing need for professional engineers, especially those with a background in environmental applications.

Oklahoma.

Expect a considerable shortage of engineers to develop in this period of time. Enrollment is trending downward and will affect the supply of engineers.

Pennsylvania. The most important element in the job market during this period, assuming the present trends continue, will be the push by employers for candidates with realistic career perspective and an ability to undertake practical engineering problems. More emphasis upon design, manufacturing and service assignments.

Pennsulvania. We suspect that the need for engineers will be relatively strong in 4-5 years, perhaps never again as strong as it was in the mid 1960's - but nevertheless very substantial.

Pennsylvania. Due to the decrease in the 1976 engineering freshman class, it would appear that engineers will be in as much demand as they were in the midfifties and sixties. Engineering

enrollment will decrease until the demand for engineers reaches a point where high school counselors will again suggest engineering as a career.

South Dakota, A strong demand for all seniors who have a solid academic background, have been active in campus organizations, and who are willing to re-locate anywhere in the United States. A realistic balance of all types of engineers and the needs of industry.

Tennessee. Declining enrollment in engineering should create a shortage of graduates by 1976 or so. Earlier retirement and the fact that many engineers "get out of engineering" after a few years work will add to this demand. Quite a few employers are really hiring engineers for "management" jobs vs. strictly engineering work. This means that more employers are seeking graduates with such potential if it can be identified early. Many engineering graduates seek to improve their management potential by course work, etc. This trend should

Tennessee. A shortage of engineers in the traditional engineering fields - civil, electrical, mechanical, chemical, except an increase in 2 year cechnical school graduates may take up some of the slack. Some space and defense agencies may find great competition for graduates. The plight of the engineers recently affected by lay-offs in those fields has created a credibility gap.

Texas. I expect an improvement in the economy, a shortage of B.S. engineering students, and a decided increase in the demand for B.S. engineering graduates. Anticipate decided need for engineers in environmentally related work as distinguished from the dilettante, pseudo-scientist purporting to be concerned with environmental matters.

Utah. Engineers of all types will be in very short supply.

Virginia. Our graduates in engineering have fared very well since the early '30's but it is possible to foresee more engineers employed in roles not purely engineering in character.

Virginia. We would estimate a continuing improvement in the overall employment situation. The past two years has caused many students and institutions of higher education to become concerned with programs of career information or orientation. Persons graduating from colleges and universities in the future should be better informed and motivated concerning career possibilities. We agree with those who predict an engineer shortage toward the end of '70's. The great majority of our national priorities will require the engineers' expertise. The demand for the engineers' talents will continue to increase through the 70's raising the question - will the supply be adequate to meet this demand?

Washington. It's got to be excellent; dropping enrollments plus population and economic growth has to mean more jobs and fewer new engineers to fill them. Strong possibility of serious national shortage of engineers.

Wisconsin. I think we will again be back in a rather severe shortage in engineering. The news media have again distorted the market which so adversely affected enrollment. The expected big push to solve social and environmental problems will have to involve engineers. Social theory will not clean up sewage and pollution. That, plus housing, mass transit, etc. can only be solved by technology.

This year the proportion of bachelor's degree graduates who had accepted or were still considering job offers increased by four percentage points over 1971, while the percentage going directly to graduate school remained steady at 20 percent and the number entering military service decreased to a pre-Viet Nam level of

other plans rose to 11 percent, which in past years would have been interpreted as a shortage of job opportunities. Comments of the placement directors, however, indicate that we are witnessing a new phenomenon, with substantial numbers of new engineering graduates taking a relaxed approach and simply postponing entry into the world of work. In contrast to 1970 and 1971, when students felt under pressure to seize the first good job offer that came their way, many graduates of the class of '72 seem to be sufficiently confident of the future to wait a few months before making a career commitment. A handful of placement directors noted some evidence of discouragement or disillusionment among a few of their students, but in general the uncommitted graduates just seem to be relaxing after the pressures of the last few years.

The following comments are typical of those noting the change in student outlook.

"For this class, at least, a new trend seems to have developed. There were almost as many graduates that did not seek employment as those that did. They had no plans for either employment or graduate school. Apparently they intend to do nothing or take temporary jobs until they decide what they really want to do."

"These days there are some students who do not want to get involved in what the students term 'the recruitment hassle'.

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These students often choose to seek out companies independently and to present their credentials individually. Each year a small but consistent group of students is not sure of their future and choose to 'look around' instead of actively seeking work.

Eventually they return to seek our assistance, realizing that their four years at school have provided an excellent foundation for a variety of careers."

At the master's degree level trends were similar to the bachelor's degree graduates but less distinct in nature. Changes in the doctor's degree placement statistics, which are based on a relatively small number of graduates, tend to present an erratic pattern. At both advanced degree levels, however the proportion of graduates without job offers or other plans was quite low.

In the technology programs, associate degree graduates showed a strong commitment toward employment and somewhat away from further study, although the statistics for this group reflect an increased representation of non-ECPD schools. Bachelor of technology graduates continued to show placement characteristics similar to previous years, with only five percent going on to advanced study and seven percent without job offers or other plans.

As usual, graduates of ECPD schools at practically all levels were more likely to continue further study, while students from the non-ECPD schools were more oriented toward employment. (An ECPD school has at least one curriculum in engineering or engineering

technology, as appropriate, accredited by the Engineers' Council for Professional Development.) Individual curricula differed widely as to the placement status of their graduates, but the differences this year were similar in most respects to those disclosed by past surveys. Details will be found in the tables and text elsewhere in this report.

Starting salaries for technology graduates as collected by the EMC survey are not directly comparable to previous years because of a tremendous increase in the number of non-ECPD schools reporting. Many of these schools have industrial arts or industrial technology curricula rather than engineering technology, and their graduates tend to draw lower salaries, at least at the associate degree level. It is merhaps significant that average salaries for graduates of the ECPD schools increased from \$637 per month to \$647 even though the overall mean for all graduates would appear to have decreased. At the bachelor's degree level it is interesting to note that the non-ECPD technology schools have a salary advantage over the ECPD schools in the civil, electrical, and industrial curricula. The overall mean salary of \$825 per month for bachelors of technology compares favorably with the average of \$872 reported by the College Placement Council for engineering graduates.

One school reported salary ranges for Master's degree recipients in industrial technology, with an average of \$1,120 and a range from lowes to highest of \$900 to \$1,400 per month.

BACHELOR'S DEGREE ENGINEERING GRADUATES

The class of 1972 saw an improvement in the employment picture this spring after the recruiting slump of 1970-71. Many placement directors observed a turnaround in the last months prior to graduation as companies resumed hiring and discovered that the supply of available new engineers was not as plentiful as they had supposed. The proportion of graduates who had accepted employment or were still considering job offers increased slightly over last year but the number with firm commitments was down four percentage points to 84 percent. This result was brought about by a fivepoint decrease in the number entering military service and an increase in those without job offers or other plans. Comments received from placement directors in response to a special EMC questionnaire make it clear that job offers were not lacking; rather, more students than in previous years were taking a relaxed view of the situation and were simply delaying their decision on a future course of action until fall or later. (See the discussion under THE OVERALL PICTURE for additional information on the general employment situation as seen by placement directors.)

Trends in the placement picture since 1958, when the Engineering Manpower Commission began this series of surveys (none were conducted in 1962 and 1963) are shown in Table 1. It will be noted that the percentage of new graduates going directly into advanced study did not change from 1971 to 1972 and is still well



TABLE 1
Placement Status of Bachelor's Degree Engineering Graduates
1972 Compared with Previous Years

Placement Status		1958	1959	1960	1961	1964	1965	1966	1967	1968	1969	1970	1971	1972
Employed**		59%	63%	62%	65%	59%	60%	54%	64%	68%	71%	64%	52%	54%
Entering Graduate Studies**		10	- 11	10	14	17	25	26	25	18	16	17	20	20
Entering Military Service		9	. 8	8	11	9	8	7	9	11	9	11	14	9
Other Specific Plans			- 1 -	2	2	3	1	1	2	1	* .	2	2	2
Graduates Committed (Total of Above)	• • • • • • • • • • • • • • • • • • • •	79	83	82	92	88	87	85	98	96	96	92	88	84
Considering Job Offers		11	11.	11	5	j 10	12	14	2	3	3	4	3	5 ્
No Offers or Plans		10	6	7	3	· 2	1	*	*	*,		4	9	. 11
Totals with Status Known		100	100	100	100	100	100	100	100	100	100	100	100	100
*Less than 1%		•					1		\		\$ 100 m			

^{**}For 1965 and later years, those employed and entering full-time graduate studies sponsored by employer are included in both categories. Totals for these years are therefore less than the sum of individual categories.

Note: Percentages may not add to totals because of rounding.

below the peak levels of 1965-1967. On the other hand, the relatively unfavorable employment climate seems to have had little effect in causing new graduates to change their plans for graduate school. As conditions become more prosperous it is probable that the popularity of advanced degree study will resume the upward trend that was interrupted by changes in the draft regulations between 1967 and 1969.

Table 2 compares the placement status of graduates on the basis of ECPD acceditation. As usual the ECPD schools showed more students going into graduate study and fewer entering employment. Graduates of the non-ECPD institutions were more likely to have definite plans. These differences have been apparent in previous EMC placement surveys.

Placement Status of Bachelor's Degree Engineering Graduates - 1972
ECPD Accredited and Non-Accredited Schools

Placement Status	So No.	All chools	•	'ECPD S No.	ted		Non-Accredited Schools No. %			
Employed	10305	53		9816	52		η.	489	70	
Employed and Entering Full-Time Graduate Study	151	*.		149	*	· · · · · · · · · · · · · · · · · · ·	S A	2 .	*	
Entering Graduate Study	3767	19		3699	20			68	10	
Entering Military Service	1721	9	+ 10.00	1674	9	4.	ē	47	7.	•
Other Specific Plans	435	2		423	2			12	2	٠,
Graduates Committed (Total of Above)	16379	84		15761	84			618	88	
Considering Job Offers	1018	5		961	5		e to a	57	8	
No Offers or Plans	2125	11 ,		2101	11			24	. 3	
Total with Status Known	19522	100	• •	18823	100			699	100	
No Information	4837			4758				79		. •
Total Reported	24359		31.3	23581				778		
*Less than 1%										

NOTE: Percentage may not add to totals because of rounding.

TABLE 3

Placement Status of Engineering Graduates by Curriculum - 1972

Bachelor's Degree Programs

Engineering Curriculum

			,								
	Placement Status	Aero.	Agr.	Arch.	Ceram.	Chem.	Civil	lec. & Elex.		Eng. Sci. hys./Mech	
	Employed**	44%	52%	39%	47%	48%	59%	54%	43%	34%	
	Entering Full-Time Graduate Study**	20	17	9	25	25	19	20	. 26	39	
	Entering Military Service	20	13	5	5	6	8	. 8	7	8	
	Other Specific Plans	2	2	16	2	3	, 2	. 2	4	3	,
	Graduates Committed (Total of Above)	86	85	70	76	81	86	83	82	34	
	Considering Job Offers	4	6	17	6	7	4	5	5	. 4	
	No Offers or Plans	10	10	13	18	12	9	12	13	12	1
	Placement Status	Indus.	Mech.	Metal.	Min. & Geol	. Nav	. <u>Nuc</u> .	Petro	All Other	rs Total	<u>1</u>
	Employed***	. 54%	58% ^	46%	69%	69%	44%	79%	47%	54%	
	Entering Full-Time Graduate Study**	20	16	23	18	9.	36	9	25	20	
	Entering Military Service	10	8	10	6	: .	13	5	11	9	
	Other Specific Plans	2	2	2	3	2	, ``1, * ` `	2	3	2	
	Graduates Committed (Total of Above)	87	83	82	96	92	93	95	86	84	
. 1	Considering Job Offers	3	6	7 .	* - 4	6	· 1	3	5	5	
1	No Offers or Plans	10	11	12	3	2	6 -	1	9	11	
	*Less than 1%		100			į urtus					

^{*}Less than 1%

NOTE: Percentages are based on total with status known and may not add to totals because of rounding.

^{**}Those employed and entering graduate studies sponsored by employer are included in both categories, but are counted only once in totals.

There were many differences among the different curricula this year, as indicated in Table 3. In attempting to draw conclusions from a comparison of curricula, or from results of past years, care should be taken to note that relatively small numbers of students are involved in the smaller programs. Therefore some changes may be more apparent than real, depending on which schools happened to reply or on other factors unrelated to the employment situation. The comments of placement directors as reported earlier provide helpful insights to aid in evaluating the bare statistics.

Salaries offered to engineering graduates this year were only slightly higher than in 1971, as reported by the College Placement Council, but led all other curricula at the bachelor's level.

Table 4 gives the CPC averages for major fields.

TABLE 4
Starting Salaries of 1972 Graduates
Bachelor's Degree Level

	All Gra	duates	CO-OP Programs				
Curriculum	Average Dollars Per Month	Percent Increase Over 1971	Average Dollars Per Month	Percent Increase Over 1971			
Aeronautical Engineering	884	2.8	939	5.9			
Chemical Engineering	928	0.9	934	0.3			
Civil Engineering	869.	2.2	868	0.1			
Electrical Engineering	888	1.3	906	1.0			
Industrial Engineering	871	0.6	897	3.0			
Mechanical Engineering	894	1.5	909	2.5			
Metallurgical Engineering	881	0.8	892	-0.6			
Men, All Engineering Fields	892	1.7	908	1.7			
Women, All Engineering Curricul	a 893	0.9	NA	NA.			
Physics, Chemistry, Mathematics	795	0.1	869	3.7			
Non-Technical (Average)	781	2.6	819	3.1			

Source: The College Placement Council, Inc.



MASTER'S DEGREE ENGINEERING GRADUATES

Graduates at the master's level did well this year, with only four percent indicating no job offers or plans, while 66 percent were employed or considering job offers. The breakdown for the major curricula as given in Table 5 shows most fields to be in good shape, except for a slight weakness in chemical engineering. The percentage returning to jobs already held dropped by six points compared to last year, but the statistics are almost identical to those for 1970, as listed in Table 7. It is impossible to determine whether this is due to a decrease in the number of employed engineers pursuing degrees or is simply an accident of the schools that happened to provide data this year. As in previous years, nearly one fifth of the master's degree graduates were continuing full-time study, presumably toward the doctorate.

Salaries offered continued to show little or no increase over last year, as shown in Table 6. However, the averages for engineers topped all other fields except for technical undergraduates receiving the MBA. Both the placement and salary figures are in contrast to the impression among placement officers and company personnel managers that the demand for master's degree engineers was lower than that for bachelor's degree graduates. If employers were less enthusiastic about hiring the advanced degree people, their actions did not reflect it in a measurable way.



TABLE 5

Placement Status of Engineering Graduates by Curriculum - 1972

Master's Degree Programs

Placement Status	Chem.	Civil.	Elec.	Eng. Sci.	Indust.	Mech.	Other	Total
Newly Employed	37%	46%	33%	26%	40%	37%	41%	38%
Returning to Job	13	18	30	37	28	26	27	25
Full-Time Study	29	15	20	22	; 11	18	18	19
Military Services	4	.7	6	8	6	10	7	7
Other Specific Plans	7	6	3	3	8	3	1	4
Graduates Committed (Total of Above)	90	92	92	96	94	94	95	93
Considering Job Offers	4	3	4	*	2	. 2	*	3
No Offers or Plans	6	4	4	4	4	4	4	4

*Less than 1%.

NOTE: Percentages are based on total with status known and may not add to totals because of rounding. \Box

TABLE 6
Starting Salaries of 1972 Graduates
Master's Degree Level

Curriculum	Average Dollars Per Month	Percent Increase Over 1971
Chemical Engineering	1055	0.1
Civil Engineering	993	1.5
Electrical Engineering	1018	0
Industrial Engineering	1018	1.4
Mechanical Engineering	1030	1.1
Metallurgy and Related	1036	4.9
All Engineering Fields	1024	1.4
Business Administration, Management*	1177	1.6
*After technical undergraduate degree.		



DOCTOR'S DEGREE ENGINEERING GRADUATES

Tables 7 and 8, which give the placement statistics for this group, indicate little major change over the last two years.

There does appear to be an increase in the percentage of graduates with other specific plans, but the nature of these plans was not disclosed by the survey returns. Possibly some post-doctoral appointments were reported here rather than under full-time study. The miscellaneous "other" group showed the highest percentage without job offers or plans, and chemical engineering was perhaps a bit weaker than the other curricula at the doctorate level as well as the master's degree level.

Placement Status of Master's and Doctor's Degree Engineering
Graduates - 1972 Compared with Previous Years

	Maste	r's De	gree	Doctor's Degree					
Placement Status	1970			 1970	1971	1972			
Newly Employed		32%	. 38%	68%	74%	64%			
Returning to Job	24	· 21	25	10	10	14			
Full-Time Study	19	21	19	4	3	2			
Military Service	9	8 - "	7	 3	3	2	٠.		
Other Specific plans	4	3	4	 4	4	9			
Graduates Committed (Totals of Above)	94	96	93	89	94	92			
Considering Job Offers	, 3	2	3	 . 3	3	3			
No Offers or Plans	4	2	4	 8	4	5	-:		
Total with Status Known	100	100	100	100	100	100			

Note: Percentages may not add to totals because of rounding.



TABLE 8

Placement Status of Engineering Graduates by Curriculum - 1972

Doctor's Degree Programs												
Placement Status	Chem.	<u>Civil</u>	Elec.	Eng. Sci.	Indust.	Mech.	Other	Total				
Newly Employed	66%	65%	61%	73%	58%	64%	61%	64%				
Returning to Job	8	16	19	17	 8.	10	18	14				
Full-Time Study	8	2	2	0	1 1	2	*	2				
Military Service	1	3	2	1	3 5	3	*	2				
Other Specific Plans	8	8 .	8	4	26	10	9	9				
Graduates Committed			••				•					
(Total of Above)	91	95	93	96	96	89	89	92				
Considering Job Offers	3	2	2	1	4	4	2	3				
No Offers or Plans	6	4	5	3	0	7	· 9 ·	5				
*Less than 1%				•								

NOTE: Percentages are based on total with status known and may not add to totals because of rounding.

Starting salaries are shown in Table 9, and here the advances over last year were varied. However, in no non-engineering field were doctorate salaries as high as those offered to engineers.

TABLE 9
Starting Salaries of 1972 Graduates
Doctor's Degree Level

<u>Curriculum</u>	Average Dollars Per Month	Percent Increase Over 1971
Chemical Engineering	1405	0.7
Civil Engineering	1227	11.3
Electrical Engineering	1439	3.7
Mechanical Engineering	1381	8.1
Metallurgy and Related	1331	1.3

Source: The College Placement Council, Inc.

ASSOCIATE DEGREE TECHNOLOGY GRADUATES

Graduates of the two-year technician programs also shared in the employment upturn of 1972, according to the results of the EMC survey. Although the overall statistics presented in Table 10 indicate an increase of eleven percentage points in the number entering employment, the figures must be interpreted with caution because of the greatly increased response to this year's questionnaire. Nearly 2 1/2 times as many students were covered this year as in 1971. Since much of the increase came from schools without ECPD - accredited curricula, some of the apparent change over last year must be attributed to the different composition of the two surveys.

TABLE 10

Placement Status of Associate Degree Technology Graduates

1972 Compared with Previous Years

Placement Status	1967	1968	1969	1970	1971	1972
Employed	63%	54%	63%	56%	47%	58%
Full-Time Study	15**	30	23 ·	28	29	24
Military Service	7	7	6	- 7	. 8	3
Other Specific Plans	10	1	- 1	*	1.	2
Graduated Committed (Total of Above)	95	93,	94	91	85	87
Considering Job Offers	4	7	6	5	8	9
No Offers or Plans	1	*	*	4	g - 7 - 1	4
Total with Status Known	100	100	100	100	100	100

^{*}Less than 1%.

NOTE: Percentages may not add to totals because of rounding.



^{**}In the 1967 survey the category of full-time study was not specifically included in the questionnaire, but was written in by some respondents and included in "other specific plans" by others. The true proportion going on to full-time study was probably about 24% for associate degree graduates.

Table 11, however, gives the statistics broken down according to ECPD status of the schools, and shows that graduates from both types of institutions were more likely to enter employment and less likely to continue study than was the case last year. The number entering military service was much lower this year, as among engineering graduates, because of reduced draft quotas and the random selection system of draft calls. As in past years, graduates of ECPD schools were about twice as likely to go on to four-year colleges as those from non-ECPD institutions.

TABLE 11

Placement Status of Two-Year Technology Graduates - 1972

ECPD Accredited and Non-Accredited Schools

				Non-ECPD Schools	
		No.	% 	No.	
4657	58	1859	48	2798	,66
1952	24	1331	35	621	15
255	3	124	3	131	. 3
168	2	73	2	95	2
7032	87	3387	88	3645	87
697	9	291	8	406	10
332	4	174	5	158	4
8061	100	3852	100	4209	100
1485		945		540	
9546	13	4797	. .	4749	
	Schno. 4657 1952 255 168 7032 697 332 8061 1485	4657 58 1952 24 255 3 168 2 7032 87 697 9 332 4 8061 100 1485	Schools Scho No. % 4657 58 1952 24 1331 255 255 3 168 2 73 7032 87 3387 697 9 291 332 4 8061 100 3852 1485 945	Schools Schools No. % 4657 58 1952 24 1952 24 1331 35 255 3 168 2 73 2 7032 87 3387 88 697 9 291 8 332 4 174 5 8061 100 3852 100 1485 945	Schools Schools Schools Schools Schools No. No.

NOTE: Percentages may not add to totals because of rounding.

The breakdown by curricula, Table 12, shows the highest percentages of uncommitted graduates in the aerospace, electrical,



TABLE 12

Placement Status of Technology Graduates by Curriculum - 1972

Associate Degree Programs

Placement Status	Aero	Air Cond.	Auto	Chem.	<u>Civil</u>	Com- puter	Draft- ing	
Employed	50%	84%	70%	55%	54%	59%	65%	
Full-Time Study	27	9	10	28	28	19	18	
Military Service	2	3	3	2	3 .	2.	2	
Other Specific Plans	0	*	14	2	1	3	2	
Graduates Committed (Total of Above)	80	96	96	86	87	83	8,8	
Considering Job Offers	13	4	3	8	8	11	10	
No Offers or Plans	7	0	*	6	_f 5	7	2	
Placement Status	Elec- trical	Elec- tronics	Indust.	Mfg.	Mech.	Met.	Other	Total
Employed ·	52%	57%	45%	76%	54%	54%	63%	58%
Full-Time Study	26	24	41	14	30	27	24	24
Military Service	4	4	9	*	3	4	2	3
Other Specific Plans	-1	2	1	*	2	0	. 1	2
Graduates Committed (Total of Above)	82	88	9 5	91	88	85	90	87
Considering Job Offers	13	8	4	5	8	12	8	9
No Offers or Plans	5 .	4	1	4	4	2	2	4
tions than 10		,				*		

*Less than 1%

NOTE: Percentages are based on total with status known and may not add to totals because of rounding.

computer, metallurgical, and chemical technologies. These findings are generally consistent with those in the engineering section of the survey. Graduates of the industrial curricula, as last year, showed the highest percentage going on to full-time study and the lowest entering employment, while air conditioning technology was at the other extreme. It should be noted that each curriculum designation includes a wide variety of programs ranging from



fully accredited engineering technology through pre-college oriented programs to curricula with a heavy concentration of vocational or skill courses. Thus the variations from year to year or among curricula represent relative comparisons only and should not be assumed to have precise numerical significance.

Table 13 lists the average salary offers received by technology graduates, broken down according to curriculum and ECPD recognition of the school. The "Avg. Low" and "Avg. High" figures are simply the arithmetical averages of the highs and lows reported by each school, and as such indicate rough upper and lower limits on the range of salaries offered. The overall mean salary offered in 1972 was \$607 per month, which is intermediate between \$647 for graduates of ECPD schools and \$572 for others. Compared to 1971 the mean for ECPD schools increased by \$10 per month or about 1.6 percent. The overall mean, however, decreased because of the much larger representation of non-ECPD schools in this year's survey and the lower salaries reported by those schools. The great majority of salary offers fell within the range of \$509 to \$735 per month, but there were many outside the range in both directions.

Generally speaking, the best paid curricula were manufacturing, materials, and mechanical technology, with industrial, chemical, and electronics also rating high. It will be noted that rather wide differences exist between curricula in the ECPD versus the non-ECPD columns. This, of course, reflects the great variety in the quality of programs offered under similar sounding names. Therefore the salary experiences of individual schools are better guides for their own graduates than the average figures cited in this report.



TABLE 13

Monthly Starting Salaries of 1972 Technology Graduates

Associate Degree Level

Curriculum	No. of Schools	No. of Salaries	Avg. Low*	Mean Non-ECPD <u>Schools</u> **	Overall <u>Mean</u>	Mean ECPD Schools**	Avg. <u>High</u> ***
Aerospace	7	45		\$495	\$602	\$724	\$844
Air Conditioning	13	84	470	519	556	675	696
Architectural	21	214	484	569	583	615	699
Automotive	9 .	60	429	598	596	578	655
Chemical	20	107	534	583	625	652	784
Civil	45	446	514	587	· 616	633	758
Computer	31	278	457	533 ·	563	613	729
Drafting	35	260	472	533	546	615	640
Electrical	37	374	527	560	610	646	756
Electro-Mechanical	4	23	528	599	608	629	694
Electronics	60	731	517	588	621	671	760
-Environmental	4	37	527	561	598	616	661
Industrial	10	79	507	. NA	633	633	802
Instrumentation	6	16		491	603	714	678
Manufacturing	11	81	568	653	674	688	751
Materials	4	13	519	618	653	664	679
Mechanical	52	377	540	605	637	657	744
Other	10	43	555	6/0	648	577	768
All Curricula	126	3268	509	572	607	647	735

^{*}Mean of the lowest figures reported by responding schools.



^{**}ECPD schools are those having at least one engineering technology curriculum accredited by ECPD. Specific curricula for these schools may or may not be accredited. There were 21 ECPD schools and 18 others in the total of 39 included in this table.

^{***}Mean of the highest figures reported by responding schools.

BACHELOR'S DEGREE GRADUATES IN TECHNOLOGY

The number of schools offering four-year degrees designated as bachelor of engineering technology, bachelor of industrial technology, or simply as bachelor of science in some field of technology, continues to increase, and so does the number of graduates. The number reported in this survey, 2106, is nearly double the total reported last year. Their placement status is not drastically different compared with previous years or with bachelor's degree engineering graduates except that only five percent of the technologists were continuing on to advanced study and only seven percent had no offers or plans. Table 14 gives the figures for previous years.

TABLE 14

Placement Status of Bachelor's Degree Technology Graduates

1972 Compared with Previous Years

Placement Status	1967	1968	1969	1970	1971	1972
Employed	70%	75%	72%	69%	60%	67%
Full-Time Study**	10	4	7	. 4	5	5
Military Service	11	13	12	9	13	7
Other Specific Plans	-3	. 2	*	2	4	2
Graduates Committed (Total of Above)	93	94	91	84	81	81
Considering Job Offers	6	5	8	11	8	12
No Offers or Plans	1	*	*	5	11	7
Total with Status Known	100	100	100	100	100	100

^{*}Less than 1%.

NOTE: Percentages may not add to totals because of rounding.



^{**}Because of differences in the survey methodology, data for the different years are not strictly comparable and indicate general trends only. In the 1967 survey the category of full-time study was not specifically included in the questionnaire, but was written in by some respondents and included in "other specific plans" by others.

The breakdown by curricula, Table 15, shows few deviations from the general pattern. More graduates from industrial or related curricula were going into further study, while electrical and mechanical graduates were slightly less likely to have made firm commitments.

TABLE 15

Placement Status of Technology Graduates by Curriculum - 1972

Bachelor's Degree Programs

Placement Status	<u>Civil</u>	Elec.	Indust.	Mech.	Other	<u>Total</u>
Employed	73%	65%	67%	65%	72%	67%
Full-Time Study	3	. 2	, 9	3	4 -	5
Military Service	5	9	7	5 .	2	. 7
Other Specific Plans	1	2	1	*	6	2
Graduates Committed (Total of Above)	82	78	84	74	83	81
Considering Job Offers	11	11	12	15	6 .	12
No Offers or Plans	7	11	4	11	10	7
•				,	*	

*Less than 1%

NOTE: Percentages are based on total with status known and may not add to totals because of rounding. -

The statistics by ECPD status, Table 16, indicate that students from the ECPD schools are less likely to have already accepted employment and more apt to be still considering job offers, while more of the non-ECPD graduates were without job offers or other plans. In both groups about the same percentages were continuing full-time study.

TABLE 16

Placement Status of Bachelor's Degree Technology Graduates - 1972

ECPD Accredited and Non-Accredited Schools

A	A1 Scho		E0 :Scho	CPD ools	Non- Scho	-ECPD	
Placement Status	No.	%	No.		No.	%	
Employed	1125	67	385	62	740	71.	
Full-Time Study	90	5	29	5	61	6	
Military Service	110	7	54	9	56	5	
Other Specific Plans	29	2	5	*	24	2	
Graduates Committed (Total of Above)	1354	81	473	76	881	84	
Considering Job Offers	198	12	114	18	84	8	
No Offers or Plans	117	7	34	5.	83	8	
Total with Status Known	1669,	100	621	100	1048	100	
No Information	437		305		132		
Total Reported	2106		926		1180		

^{*}Less than 1%.

NOTE: Percentages may not add to totals because of rounding. ECPD schools are those having at least one curriculum in engineering technology at the bachelor's degree level accredited by ECPD.

Salaries offered to BT graduates again tended to be closer to those for engineers than to those for technicians, with an overall average of \$825 per month reported this year. Interestingly enough, the averages for non-ECPD schools were higher than the ECPD group in the civil, electrical, and industrial categories as well as in the combined totals. The total of 1041 salaries included in the statistics is more than twice as many as last year with the greatest increase in the industrial curriculum. The average salary increased by \$15 per month or about two percent over last year. The cautions about variability in programs and ranges between high and low salary offers, as pointed out earlier, also apply to the bachelor of technology statistics. From all indications, however, these graduates are equally in demand along with engineers at the bachelor's level and are being hired at salaries not much lower than engineers.

TABLE 17

Monthly Starting Salaries of 1972 Technology Graduates

Bachelor's Degree Level

Curriculum	No. of Schools	No. of Salaries	Avg.	Mean Non-ECPD Schools**	Overall Mean	Mean ECPD Schools**	Avg: <u>High</u> ***
Civi1	8	139	\$647	\$805	\$ 796	\$779	\$962
Electrical	14	160	709	868	847	820	956
Industria1	21	537	627	832	826	783 , ''''	997
Mechanical	13	124	724	828	838	849	992
Other	8	81	701	795	800	810	931
All Curricula	29	1041	680	832	825	806	969

^{*}Mean of the lowest figures reported by responding schools.

^{**} ECPD schools are those having at least one engineering technology curriculum accredited at the bachelor's level by ECPD. Specific curricula for these schools may or may not be accredited. There were 7 ECPD schools and 22 others in the total of 29 included in this table.

^{***}Mean of the highest figures reported by responding schools.

"NO INFORMATION" REPORTS

As usual, the EMC survey received many returns in which the placement office reported having no information about many graduates. Since these introduce a degree of uncertainty into the statistical analysis, this year's respondents were asked explicitly to express their judgment as to the probable status of the "no information" group. The results were quite gratifying, as they produced widespread support for the conclusion that most of these students already had jobs or other plans and simply did not need or want placement office help. The estimated distribution of these "no information" students as averaged from 62 usable replies was about 31 percent already employed, 36 percent with other firm plans, 15 percent foreign nationals, 14 percent not interested in starting work, and 5 percent miscellaneous reasons. These figures provide assurance that there are no serious distortions in the statistics used for the EMC placement report. Certainly there is no evidence that significant numbers of unsuccessful job seekers are concealed in the "no information" group.

Schools reporting very high percentages of "no information" were excluded from the statistical tabulations in order to reduce the degree of uncertainty. Data from a few military and other schools were not included because of the untypical placement pattern of their graduates.

Table 18 gives the "no information" statistics for this year.

Regrettably, the percentages continue to increase in most categories, so that we now are receiving definite placement information on only four out of five graduates. For some reason the non-ECPD schools consistently report more completely than their ECPD counterparts. Perhaps this is because so many more of the non-ECPD graduates are seeking actual employment, where placement office assistance is important, while the ECPD schools send more students on to graduate school. In any event the continued absence of specific placement information is a loss to all concerned, and it would be helpful if more educational institutions would follow the example of those schools that regularly obtain data on all of their graduates as a matter of policy.

TABLE 18

Analysis of "No Information" Reports

	Total Graduates Reported .
Engineering Degrees, BS	24359
ECPD Schools	23581
Other Schools	778
Engineering Degrees, MS	6361
Engineering Degrees, PhD	1404
Technology Degrees, BS	2106
ECPD Schools	926
Other Schools	1180
Technology Degrees, AS	9546
ECPD Schools	4797
Other Schools	4749

ENGINEERING DEGREES 1971-72

According to this year's survey by the Engineering Manpower Commission of Engineers Joint Council, there were 44,190 bachelor's degrees in engineering earned in the school year ending in June 1972. Surprisingly, this was somewhat more than had been predicted on the basis of senior enrollments in fall 1971.

The numbers of advanced degrees reported this year were 17,003 master's, 353 engineer degrees, and 3,774 doctorate degrees. All totaled, this represents a combined increase of 1,107 over last year's graduate degrees.

For the 1971-72 survey, replies were received from 284 institutions. Bachelor's degrees were reported from 280 schools, master's from 207, engineer degrees from 21, and doctor's from 134. Four schools reported granting only advanced degrees --- Rensselaer Polytechnic Institute at Hartford, Connecticut; University of North Carolina at Chapel Hill; the Institute of Textile Technology; and the Institute of Paper Chemistry. This year 216 schools had at least one curriculum accredited by the Engineers' Council for Professional Development as indicated in



their 1971 Annual Report, but at five of these schools only master's degree curricula were accredited (Cornell University, University of Louisville, University of North Carolina at Chapel Hill, Rensselaer Polytechnic Institute at Troy, New York, and Rice University).

The following schools were added to the survey since 1971:

University of Alabama, Birmingham	Alabama
University of South Alabama	Alabama
Arkansas Polytechnic Institute	Arkansas
Loyola College	Maryland
Andrews University	Michigan
Marietta College	Ohio
	Virginia
Washington & Lee University	Virginia

This year there were also several changes in names of reporting institutions:

OLD	NEW
Cal St Poly Kellogg	Cal St Poly U-Pomona
Chico St Coll	Cal St U-Chico
Fresno St Coll	Cal St U-Fresno
Cal St Coll Fullerton	Cal St U-Fullerton
Humboldt St Coll	Cal St U-Humboldt
Cal St Coll Long Beach	Cal St U-Long Beach
Cal St Coll Los Angeles	Cal St U-Los Angeles
San Fernando Val St Coll	Cal St U-Northridge
San Diego St Coll	Cal St U-San Diego
San Francisco St Coll	Cal St U-San Francisco
San Jose St Coll	Cal St U-San Jose
SUNY Coll Ceramics Alfred	N Y St Coll of Ceramics
PMC Colleges	Widener College
Wisconsin St U	U of Wisconsin-Platville
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Table A provides a historical summary of the degrees awarded from 1949 to date. Data for 1949 through 1967 were provided from the U. S. Office of Education's annual reports and figures from 1968 to the present were compiled by the Engineering Manpower Commission. The two series differ somewhat in survey methodology and criteria for determining what are "engineering" degrees, but apparently these differences do not appear to be important in terms of the total numbers of degrees. The EMC survey asks for engineering degrees only and requests that the data be verified by both the dean of engineering and the registrar of the reporting institution.

Table B gives the breakdown by curriculum and degree level for 22 curricula and a small catch-all category of "other." For a complete breakdown of the "other" group, see the notes after Table F.

The number of degrees are broken down by school, curriculum, and degree levels in Tables C through F.

This year there were fifteen schools that granted 500 or more bachelor's degrees:



Purdue U	972
U of Illinois-Urbana	733
Georgia Inst of Tech	727
Northeastern U	727
U of Michigan	726
U of Missouri-Rolla	716
Pennsylvania St U	687
Newark Coll of Engrg	681
Iowa St U	607
North Carolina St U	607
U of Minnesota	589
U of Washington	588
Ohio St U	558
Texas A & M U	512
Virginia Poly Inst	512

Similarly, the following schools reported 300 or more master's degrees this year:

į.	
Stanford U	686
U of Calif-Berkeley	491
New York U	404
M. I. T	397
U of Illinois-Urbana	365
U of Missouri-Rolla	35.9
U of Michigan	349
Purdue U	338
Poly Inst of Brooklyn	334
Northeastern U	321
U of Southern Calif	302

M I T was the only school to award more than 100 engineer degrees. The actual number was 114 degrees for 1972.



1000 commore doctorates were produced at the following schools:

Stanford U	187
U of Calif-Berkeley	186
MIT	162
U of Illinois-Urbana	118
U of Michigan	108
Purdue U	108

With most of the engineering schools having at least one curriculum accredited by ECPD, it is not surprising that only about 8% of the degrees were granted by non-accredited institutions. Out of the 44,190 bachelor's degrees this year, only 3,351 were from non-ECPD schools.

This year, as in the past, schools were asked to report the total numbers of degrees earned by women, foreign nationals, and U. S. Negroes. Many schools are still unable to provide a breakdown of these figures, but the totals listed below promide a strong indication of the actual numbers involved.

Women	Bachelor*s	Master's 269	Engineer 2	Doctors 27
U. S. Negroes	405	44-	0	6
Foreign Nationals	1,944	2,939	34	773



ENGINEERING DEGREES, ALL U. S. INSTITUTIONS, 1949-72

Table A

Year Ended June 30	Bachelor's ²	Master's ³	Doctor's
			<u> </u>
1972	44,190	17,356	3,774
1971	43,167	16,383	3,640
1970	42,966	15,548	3,620
1969	39,972	14,980	3,345
1968	38,002	15,152	2,933
1967	36,186	13,887	2,614
1966	35,815	13,677	2,303
1965	36,691	12,056	2,124
1964	35,226	10,827	1,693
1963.	33,458	9,635	1,378
1962	34,735	8,909	1,207
1961	35,860	8,177	943
1960	37,808	7,159	786
1959	38,134	6.,753	714
1958	35,332	5,788	647
1957	31,211	5,232	596
1956	26,306	4,724	610
1955	22,589	4,484	599
1954	22,236	4,177	590
1953	24,164	3,743	592
1952	30,286	4,14I	586
1951	41,893	5,156	586
1950	52,732	4,904	494
1949	45,200	4,798	417
		and the second s	

Data since 1968 from Engineering Manpower Commission; for earlier years, from U. S. Office of Education.



Includes four-year and five-year curricula.

Includes other post-baccalaureate, pre-doctoral degrees: 508 in 1970 494 in 1971, 353 in 1972.

Table B

ENGINEERING DEGREES BY CURRICULUM AND DEGREE LEVEL FOR ALL U.S. ENGINEERING SCHOOLS 1971-72

Curriculum	Bachelor!s	Master's	Engineer	Doctor's
Aerospace	2,018	671	33	205
Agricul tural	394	166	. 0	64
Architectural	380	8	0.	0
Biomedical	84	7.8	0.	38
Ceramic	202	60 [°]	3	25
Chemical	3,600	1,158	14	413
Civil	6,982	2,507	51	438
Computer	359	62.7	. 0	83
Electrical	12,430	4,211	141	850
Engineering, General	1,903	324	0	29
Engineering Mechanics	245	27.5	. 3	174
Engineering Physics	290	79	6	24
Engineering Science	884	4116	0	123
Environmental	77	37 6	1	56
Geological	177	87	0	483
Industrial	3,159	1,7496	23	189
Manufacturing	48	28	0	0
Marine	45.5	110.9	20	17
Materials	112	125	3	83
Mechanical	8,642	2,312	44	458
Metallurgical	590	3301	3	163
Mining	194	69	0	<i>-</i> 20
Nuclear	291	574	··7	124
Petroleum	30.7	86	1	21
Systems	133	497	0	.87
Textile	27	18	0	1
Transportation	5	110	0	110
Welding	20	9	0	.0
Other	182	116	0	.31
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TOTAL	44,190	17,003	353	3,774

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RHODE ISLAND Brown U U of Rhode_Island SOUTH_CAROLINA	1		1	12	_33		18 45			And And	. 3	1		32	******	10	14 _23						12	63 148	2	2 NA	3 6
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Christian Brothers Coll Memphis St U #Tennessee St U Tennessee Tech U #U of Tenn-Chattanooga U of Tenn-Knoxville Vanderbilt U	15		8	11 11 61 9	5 11 1 37 55 31	23	39 11 38 110 20		2	14 19	24 6 8 27	A STATE OF THE STA	3	29 15 53	my my panets years so man		14 6 54 73 25	7_		25			-4	67 22 193 25 434 150	0 1 2 4 0 7	NA 20 0 0 NA 3	0 20 0 NA 3
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Prairie View A & M U Rice U WSt. Mary's U Southern Methodist U Texas A & I U Texas A & M U Texas Tech U	63	23		18 19 55 22	_ 9 _ 7 _ 87 _ 46		33 16 31 78 50	29.	de Carlo	11		3.	2	10 2 43 36	9		13 20 109 52				16 23 9	11	100 mm m	67 10	NA NA 1 NA 2	O NA O NA NA O	0 1 1 2 76 NA 15
Trinity U U.of Houston U.of Texas-Arlington U.of Texas-Austin U.of Texas-El Paso	30 52		,	27 56	12 41 29 39 26	The state of the s	70 109 114 49				14		1000000 Po	26 22			60 57 121 40	15			55		29	20 224 247 447 130	0 NA	O NA NA NA NA	1 NA 18 NA 33
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Old Dominion U Vinginia Military Inst Virginia Poly Inst Washington & Lee U	. 34	7	7.	49	11 67 95	5	21 12 116		13	5				7	5	-	1	·8 98	10	11	* ************************************				51	3 2 2 5 N	O O 1 O 1 4 NA A 1	O 3 NA NA
WASHINGTON #GONZAPA U St. Martins Coll Seattle U U.Of. Washington Wella Walla Coll Washington St. U	. 62.	6		46	7 12 9 90 5	-	6 175 175 2 50				11			4	6		12	7 13 27 4	9	7	and the same of th		and an arrangement of the second	26	1 4 58	2 0	1 NA	14 14 NA 60
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AIABAMA Auburn U Tuskegee Inst U of Alebama-Birmingham U of Alabama-Huntsville U of Alabama-University AIASKA U of Alaska	8	2		-3	_10		12 - 7 6 - 9	7.	1 7		3			3 13			5 6	1	,					377 133 7 13 50	0 0 0 0 N	0 3 0 0	8 10 2 0 3
ARIZONA Arizona St U U of Arizona ARKANSAS U of Arkansas	18	2		6 3	3 8		40 24	17.	4				5	19		1	13 22		3	6		11		102 103		NA NA	NA 11
CALIFORNIA Calif Inst of Tech Cal St Poly U-Sar Luis Ob Cal St U-Fullerton Cal St U-Iong Beach Cal St U-Los Angeles Cal St U-Northridge Cal St U-Northridge Cal St U-San Diego Cal St U-San Diego Cal St U-San Diego	19			4	35 13 5 35		12 35 19 25 61	6 50 12	2	3	8	12		20		2	10 16 12 4 21							78 6 50 98 44 35 38	1 NA NA NA 1 NA O	2 NA NA NA O NA NA	37 4 NA NA NA NA NA
Harvey Mudd Coll Loyola U of Ios Angeles Northrop Inst. of Tech Sacramento St Coll Stanford U U.S. Nayal Post-Grad Sch U of Calif-Berkeley U of Calif-Davis U of Calif-Tryine	1_ 42 57_	6		23 20 3	22 21 134 85 13 23	30	41 6 157 57 131 10		1 ₄ 20	Margarett value	6	31	9 4	62		15	12 4 61 35 85 13		11	50	9	82		55 75 23 35 686 149 491 54 37 248	_NA_ _ O _ NA _ 29	NA O NA NA O O O O	NA 20 NA 198 19 332 17
U of Calif-Los Angeles U of Calif-San Diego U of Calif-Santa Barbara U of Redlands U of Santa Clara U of Southern Calif West Coast U	11		_3		1 34		32 7 26 52 109	14	39	8	20	4		10	2	10	11				4			248 23 44 14 80 302 140	2 1 NA NA 5e	NA O NA NA NA	NA 5 13 NA 14 NA NA
COLORADO Colorado Sch of Mines Colorado St U U of Colorado U of Denver CONNECTICUT R P I - Hartford	15	7		12 10 7	41 9. 9.	46	13 27 13	6.	ii1	2	9		16				18 9	13 6 9	12		7	2		67 79 86 36		0 0 NA 0	27 24 NA 8
U of Bridgeport U of Connecticut U of New Haven Yale U DELAWARE U of Delaware	1_		2		_33. 	9	11 23		<u> </u>		28			6			33 33 	_10						34 120 6 28	0-10	O O NA NA	0 6 22 2 0
DISTRICT OF COLUMBIA Catholic U of America George Washington U Howard U	13.		i _i0	<u>_</u> 4	27. 3 _9.	14	19 31 3		1					80	2		9 12 1			3		11	6 1	82 168 13		O NA O	18 13 12
Florida Atlantic U Florida Inst of Tech Florida St U Florida Tech U U of Florida U of Miami U of South Florida	7	3		16	8		28 67 7 10				7			45 6 13			26 14 3	5						261 31 34	0 NA 1 5 0	NA NA O	NA NA NA O 33 NA NA



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U of Connecticut Yale U DELAWARE	1		1	1	5	14	5				31						.1.	2			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			31	1	NA	5		
U of Delaware DISTRICT OF COLUMBIA Catholic U of America	14			7	1		.3										13			2			3	16 25	0	NA O	5		
George Washington U FLORIDA Florida St U			3		1	2	5		1		1						. 1					4	.1.	18 1	O NA	NA NA	, O , NA		
U c. Florida U of Miami GEORGIA	3			9	4	-	10				3	6		7.			2		20 Aug.	1	4 400 4 400 5 50 500 6 50 500			50 1	0	NA NA	NA		
Georgia Inst of Tech HAWAII U of Hawaii	10			4	14		3				3			4	i		.7.,		- '	7_				42 1	0	0	NA O		
IDAHO U of Idaho				. 3										.) .				1		*						0	1		
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U of Illinois-Urbana INDIANA Purdue U	12	7		9		18	28		13		1			10		, A	22	3		4				108		1	25		•
U of Notre Dame IOWA Iowa St U	<u>با</u>			3	2		24		. 3		. 3			2			1.	8	garden en	4			2	13 63	0	0	14		



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Harvard U M I T Northeastern U	14			8	15		47	8							5		24	26		23			,	8	NA NA	NA NA	NA NA
Northeastern U Tufts U U of Massachusetts				1 2 6	14		3										<u>. i</u>				7 1 Majora			5 2	O NA	NA NA	NA O NA
Worchester Poly Inst			2	2	-		3					2					5		***					18 9	NA	NA NA	NA 1
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MINNESOTA U of Minnesota	3	.5		9	. 5	4	15									3	14	6	1					···65	NA	NA .	NA.
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MISSOURI									** ***** ** *****									~						4	_0_	0.	4-
U of Missouri-Columbia U of Missouri-Rolla		4	No. 20	8	3		1 ¹ 4						_				6			2_				37	1_	0	0
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MONTANA												7															_
_Montana_St_U				. 2	.1								A				2							5	NA	NA.	NA_
NEBRASKA U of Nebraska-Lincoln				1		- ***	4	, saran	. 2			_												7		274	_
NEW_HAMPSHIRE																							_			NA	3.
Dartmouth_Coll	10 at 10 a						or 1800 parks	. 2																6	-5	0	3
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Newark Coll of Engrg Princeton U Rutgers U	18			11	1		6										.1							6 36	NA O	NA NA	12
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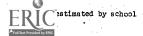


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·	AEROSPACE	AGRICULTURAL	BIOMEDICAL	CHEMICAL	CIVIL	COMPUTER	ELECTRICAL	ENGINEERING, GENERAL	ENGINEERING MECHANICS	ENGINEERING PHYSICS	ENGINEERING SCIENCE	ENVIRONMENTAL	GEOLOGICAL	INDUSTRIAL	MARINE	MATERIALS	MECHANICAL	METALLURGICAL	MINING	NUCLEAR	PETROLEUM	SYSTEMS	ALL OTHER ENGINEERING	TOTAL ENGINEERING	WOMEN	U. S. NEGRO	FOREIGN
NEW MEXICO N M Inst Mining & Tech New Mexico St U U of New Mexico				1	_1 4					2			1				1 4		700 F 700 - 700 F 700 - 700 F 700	2				1, 4 17	NA NA O	NA NA O	NA 1 2
NEW YORK City Coll of CUNY Clarkson Coll of Tech Columbia U Cooper_Union Cornell U N Y St Coll of Ceramics New York U Poly Inst of Brooklyn	6	6	5	14 5 6	13.	6	11 _10 _22 _27		5 -7-	6	. 2	_1.		2 9 17		4	3. 8 10.	1 2 3	:0	1 4		12	5 6 4	15 5 48 3 88 5 68 66	000000	O NA NA O NA NA NA NA NA NA NA NA NA NA NA NA NA	0 3 NA 2 33 1 NA 21 8 12 NA 7
R P I SUNY Buffalo SUNY Stony Brook Syracuse U U of Rochester	1			2 6 4	2	1	9 1 2 6 4	**************************************	_1		3			6_		11	6 1 2 4		of materials	4.			6	4h 22 7 13 18	NA O NA	NA NA NA NA	8 12 NA 7 6
NORTH CAROLINA Duke U North Carolina St U		3	3.	7	. 4 6		8 7						- Programmer - Pro			4	2 9			3				17 39	0 0	000	7. 5
OHIO Air_Force_Inst_of_Tech Case Western Reserve U Ohio.St U Ohio.U U.of Akron U of Cincinnati U of Toledo	833	_5	2	8 4	7 3	2 4	6 .18 .1		9		3			15		1	4 8	8 11		2.	The second of th	5	1	8 47 74 1 2 27	0 0 NA 0 0	NA O O O O O	0 20 .15 .1 .NA .7.
OKIAHOMA Oklahoma St.U U.of Oklahoma U of Tulsa	3	6		3 4 2	8. 9		6	1		i	1		2	9 7			9				1 3		ω,	42 43 7	O O NA	O NA NA	11 11 NA
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PENNSYLVANIA Carnegie-Mellon U Drexel U Lehigh U Pennsylvania St U U of Pennsylvania U of Pittsburgh	<u> </u>	_2	3	10 1 4 3 12 4	5 10 7 3 6	1	18 5 2 5 27 6		10 5 _7			6		3		-4	* 5 3 7 2	7 10 3 14 2	3	3	1		-8	51 28 37 49 67 22	0 0 NA 0 1	O NA NA NA O	13 7e 20 NA NA 7
RHODE ISLAND Brown U _U_of_Rhode_Island	3			2		#	3							Comments		ī	4			**************************************				11 9	0	O NA	10 1
SOUTH_CAROLINA _Clemson_U _U_of_South_Carolina			_1	2	1	Andreas A	1		1000 1000 -		related directly described and a	2				2	2	er entragen						9	100	NA O	0 _1
SOUTH DAKOTA _S_D_Sch_of_Mines_& Tech										4 Tage to	Tomas (market)		2											2	NA_	NA NA	2
Venderbilt U	5	1		5. 1	2		1 2		2		î	3				2	3 1	1	2	3.				22 12	NA O	NA O	iIA 3
TEXAS Rice U Southern Methodist U Texas A & M U Texas Tech U	.1	6]; 2	6 2 10 3	4	10 27 4.					- 4	, mar -	11 7		1	9 1 4				2	7		30 37 41 14	0 1 0 0	O O NA O	9 12 NA 8



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DOCTORS DEGREE									ري																		
	AEROSPACE.	AGRICULTURAL	BIOMEDICAL	CHEMICAL	CIVIL	COMPUTER	ELECTRICAL	ENGINEERING, GENERAL	ENGINEERING MECHANICS	SUSINEERING PHYSICS	ENGINEERING SCIENCE	ENVIRONMENTAL	GEOLOGICAL	INDUSTRIAL	MARINE	MATERIALS	MECHANICAL	METALLURGICAL	MINING	NUCLEAR	PETROLEUM	SYSTEMS	ALL OTHER ENGINEERING	TOTAL ENGINEERING	WOMEN	U. S. NEGRO	FOREIGN
TEXAS (cont) U of Houston U of Texas-Arlington	8			6					2			-		2		-	6	-	=					1	9 0		NA 1
U_of_Texas_Austin	8			10	22		16	-	-4								12		-	-	5			7	5 NA.	NA NA	NA NA
Brigham Young U U of Utah Utah St U			2	1 14	1 2 7		8 2			-						7.	11	-					2	142 1	NA NA O	NA NA O	NA NA 2
VERMONT U. of Vermont	-				-		2										2										
VIRGINIA Inst of Textile Tech U of Virginia																							1			0	
Virginia Poly Inst	 		2	6 	5		3 4		-1 4	5	2			-6		3 3	3 4			3				31 37	0	NA	1
U of Washington Washington St U	_5.			6	13		8				8						1	1		1	ļi		1	36	0	O NA	9 2
WEST VIRGINIA West Virginia U				3	_3.		5		. 4								1							_16	0	NA.	NA NA
WISCONSIN Inst of Paper Chemistry Marquette U U of Wisconsin-Madison		1	3	13	5		1									3.								1 . 7 . 62	0 0 1	0 0 NA	0 0
WYOMING U_of Wyoming			2				1		9			5		1		1	10	_5		3				62	1	NA	50
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TOTAL	205	64	_38_	413.	438	_83	850	_29_	174	214	123	56	48	189	_17	83_	458	163	20	124	21	87	67	3774	27	6	773
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The following degrees are included under the category of "All Other Engineering" in the main data tables:

Architectural	\overline{n}	<u>M</u>	E	D	Textile	35	unq —	<u>E</u>	<u> </u>
Cal. St. Poly. San Luis Ob.	39	_	_	_	Auburn U.	3 i	•	-	-
Heald Eng. Coll. *	4	-	_	-	Georgia Tech.	57	3	-	-
U. Colorado	15	-	2	-	Lowell Tech.	2	44	-	-
U. Miami	2		-	_	Inst. Textile Tech.		JEE.	-	1
Chicago Tech. Coll.	26	-	_	-	Phila. Coll. Textile Sci.	17		-	-
Iowa St. U.	-89	1	-	-	Manufacturing	:16:		17	n
U. Kansas	8	1	_	-	U. Bridgeport	<u>19</u> 4 5	ž.	E	<u> </u>
No. Carolina A & T	3	-	_	-	Chicago Tach. Coll. *	4	_	-	_
N. Dakota St. U.	2	-	-	-	. IIlinois Chicago	4	-		_
Oklahoma St. U.	5	2	_	-	Boston U.	319.	18	-	_
Pennsylvania St. U.	22	4	-	-	Utah St. U.	10.	210		
Tennessee St. U.	44	-	-	-	U. Vermont **	6)	-	-	-
Prairie View A & M	14	~	-	-		Çür		-	
U. Texas Austin	29	-	-	-	* Tool				
Washington St. U. *	104	-		-	** Mfg. & Mgt.				
N. Wyoming	14	~	-	-					
* Architecture	-	,			Transportation Northwestern U. U. Illinois Chicago	<u>B</u>	15 -	<u>E</u>	<u>D</u>
Ceramic	. <u>B</u>	<u>M</u>	<u>E</u>	D	Poly. Brooklyn		37	_	4
			_	-	Villanova	_	2	_	_
Georgia Tech.	10	2	_	_	U. So. Carolina	4	. 116	_	_
U. Illinois Urbana	14	16	_	2	U. Calif. Berkeley		,529	-	4
Iowa St. U.	5	4	_	2	•				•
U. Missouri Rolla	6	7	_	5	.Walding	'Bi		Ε	D
Rutgers U.	20	-	_	6	Willilkin U.	<u>n</u> 1	7.	Ē	D
N M Inst. Mining & Tech.	1	.=	_	_	Ohio St. U.	1/17	Q.		_
N Y St Coll of Ceramics	6191	H.	-	5	EleTourneau Coll.	7		_	_
N. Carolina St. U.	4,	-,-							
Ohio St. U.	班集	143:	-	1					
Pennsylvania St. U.	25	4	_	2					
Clemson U.	10	3	3	_					
Virginia Poly.	4	_	_	_					
U. Washington	26	4		1					
U. Calif. Berkeley	_	4	_	1		•			

Miscell'aneous

В	М	E	D
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The following degrees have nomenclature that differs from the column he following segrees have nomenciature that differs from the column headings under which they are tabulated. Where the variant nomenclature applies only to some of the degrees listed, these are indicated in parentheses after the name of the school. If only the name of the school is listed, this means that all degrees shown in the tables have the variant nomenclature

Aerospace

Aeronautical - Wichita St., U. Nich (IE) Aeronautics - California Inst. of Tech. Aerospace 6 Much. Sci. - Princeton Aerospace Science - U. Illinois Chicago, U. Michigan (2M,1D) Aircraft Maintenance - Parks Coll. Guided Missile - U. Texas El Paso

Agricultural & Irrigation - Utah St. U.

Biomedica.

Biocommineering - U. Cai. San Diego. U. Illinois Chicago, Carnegie Mellon. Clemson Biologicaïi - U. Conn. Rose-Hulman. Miss. State U. Biology - U. New Mexico Biomedical Electrical Eng. - U. Pennsylvania

Chemical & Petrol. Refining - Golo. Sch. Mines (30B, 10M, 4b) Chemistry - Fairleigh Dickinson. U. New Mexico. U. Tulsa (3B) Chemistry-Metallurgy - Colo. Sch. Mines. (1D)

Buildlink Construction - John Brown U.

City arlanging - U. Wisconsin Madison (2ga)

CityE. Construction - Lowa St.

CiviE. Construction - Lowa St.

CiviE. Construction - Corell

CiviE & Marylogmental - Princeton

Construction - Cai. Poly San Luis Ob., Lawrence U., U. Michigan (8M)

Geoderic - U. Michigan (1M)

Geoderic - U. Michigan (1M)

Geoderic - U. Michigan (1M)

Rome Building - Trinity U.

Rydraulics Option - U. Calif. Berkeley (11M, 4D)

Soil Eng. - U. Illinois Chicago (4B)

Structural Design - U. Illinois Chicago (13B)

Structural Eng - U. Wisconsin Madison

Structures Option - U. Calif. Berkeley (42M, 16D)

Marketying & Photogrammetry - Cal. St. U. Fresma (5B)

Commissions

Computer & Eng. Sci. - U. Pennsylvania
Computer & Info. Sci. - U. Florida
Computer, Info. & Control Eng. - U. Michigan
Computer, Info. & Control Eng. - U. Michigan
Computer Science - UCLA, U. So. Cal, West Const U., U. Conn., U. Ill Chicago (B).
U. Illinois Urbana (M&D), U. Nebraska. U. New Mexico, U. Virginia
Computer Sci. & EE - U. Colorado
Information Eng. - U. Illinois Chicago (M)

Communication Eng. - : "llinois Chicago (988)
Electrical Eng/CS - U. Illinois Urbana (608)
Electrical Scince - U. Michigan (4M. 59)
Electrical Scince - U.C.A.
Electronics - Cal. St. Poly San Luis Ob. (948), Northrop Inst.. Heald (488, 7)
Monmount Coll.
Wave Propagation & Radiation - U. Illinois Chicago (38)

backingering, General

Control | Design - Cornel |
Design - Tufts (M)
EEP - UCLA (M)
Engineering - U. Alabama Birmingham, Cal. St. Poly San Luis Ob., Cal. St. U.
Los Angeles, Cal. St. U. Northridge, Cal. St. U. Fullerton*, Cal. St. U.
San Diego*, UCLA (B), So. Illinois U, U. Kansas, U. Maryland. Tufts (B),
U. Detroit (3B), Dartmouth, Cleveland St., U. Cinclinati (278)
evening program), Swarthmore, Texas Tech., U. Houston, U. Misconsin Madison
*Includes all options
Engineering Analysis - Clemson
Engineering Composite Major - Mississippi St. U.
Engineering Design - U. Colorado
Engineering Operations - N. Car. St. U.
Interdisciplinary - Cooper Union

Englneering Mechanics

Applied Mechanics - Cal. Tech, Sacramento St. U., U. Cal. San Diego, U. So. Cal., Drexel, U. Virginia, U. Illinois Chicago (8B)
Fluid & Thermal Sci. - Case
Fluid Mechanics - U. Minnesota
Hydraulics - U. New Mexico
Mechanics - U. Colorado
Mechanics - U. Colorado
Mechanics & Hydraulics - U. lowa
Mechanics & Structures - UCLA
Structural Mechanics - U. Illinois Chicago (3B)
Theoretical & Applied Mech. - Cornell

Engineering Physics

Applied Physics - Cal. Tech, West Coast U., U. Illinois Chicago Physics - U. New Mexico Physics in Engineering - Loyola U. of Md.

Engineering Science

Applied Mathematics - Cal. Tech, West Coast U., U. Colorado, Northwestern, SUNY Stony Brook, U. Tulsa, U. Virginia (2B, 4M, 2D), U. Michigan (19B) Applied Science - Cal. St. U. Chico, U. Cal. Davis Energy & Kinetics - U.Cla. Engineering & Applied Sci - Yale Engineering & Applied Sci - Yale Engineering Mathematics - U. Arizona, Fairleigh Dickinson (8B, 8M), Vanderbilt (9B), Colo. Sch. Mines Eng. Science & Mech. - U. Florida Fluid & Thermal - U. Alabama Huntsville Gen. Sci. with Eng. Concentration - Seattle U. Interdepartmental - U. Rochester Mathematics - U. New Mexico (18B, 2M), New York U. Math, Physics, Chemistry - Pratt Science - Tuffs (1B), U. New Mexico (11B) Solids & Fluids - U. Illinois Chicago Structures, Materials, Fluids - U. So. Florida

Aeronomy & Planetary Atmospherics - U. Michigan (10M) Aeronomy & Planetary Atmospherics - U. Michigan (10M)
Atmospheric Rorthwestern (1D)
Atmospheric Resources - U. Woming (3M)
Environmental & Planning - U. Missouri Rolla
Environmental & Planning - U. Missouri Rolla
Environmental Health - U. Alaska
Environmental Health - U. Alaska
Environmental Systems - Clemson (10M, 1E. 2D)
Sanitary - U. Calif Berkeley. Michigan St. U. Penn St., Virginia Poly,
U. Michigan (9M)
Water & Air Resources - U. Illinois Chicago
Water Chemistry - U. Wisconsin Madison (1M, 5D)
Water Resource Mgt. - U. Wisconsin Madison (8M)
Water Resources - U. Kansas (3M), Clemson (5M), U. Wyoming (4M), U. Michigan (11M)

Geological

Earth Science - U. Tulea Eng. Geokcience - U. Cal. Berkeley Geochemistry - Colo. Sci. Mines (3M. ID) Geology - U. New Mexico Geophysical - Colo Sch. Mines, (25B, 4M. 3D). U. Missouri Rolla (2D) Montant Coll. Min. Sci (3B, 1M). U. New Mexico (3B, 3M)

Engineering Administration - U. Denver, U. Delaware. Geo. Washington U. Bradley U., U. Tennessee (5M), S.J. Methodist (30M)
Engineering Management - U. Alaska, U. Dayton (M), U. Tulsa. Drexel (M). Vunderbilt Industrial & Eng. Mgt. - Northeastern Lidustrial & Eng. Oper. - lowa St. U. industrial & Eng. Oper. - lowa St. U. industrial & Systems - U. So. Cal., Ohio U., Illinois Tech. Industrial & Systems - U. So. Cal., Ohio U., Illinois Tech. Industrial Eng. & Mgt. - U. Missouri Rolla Industrial Hanagement - Cal. St. U. Long Beach Management - New England Coll. Management - New England Coll. Management - Sec. - U. Bridgeport, Worcester Poly., C.W. Post L.1.U., Norwich Management Sci. - Fairleigh Dickinson (308)
Systems-Management - Air Force Inst. Tech.

Marine

Coastal & Oceanography - U. Florida
Naval Arch. - U. Cal. Berkeley, U.S. Naval Acad. (7B), Webb
Naval Arch. & Marine - U. Michigan (B.M.D)
Ocean Eng. - U. Alaska, Cal. St. U. Long Beach, U.S. Coast Guard Acad.,
Florida Atlantic U., U. Miami, U. Hawaii, U.S. Naval Acad. (21B), M.1.T.,
U. Mass., Stevens, Columbia, Oregon St., U. Rhode Island

Materials & Mechanics - U. Minnesota Materials Science - U. Cal. San Jose Materials Sci. & Eng. - Cornell

Energy Conversion - U. Wisconsin Milwackee (10B, 4M), U. Illinois Chicago (1B)
Energy Eng. - U. Illinois Chicago (7M)
Mechanical & Aero - Rutgers. Illinois Tech.
Mech. & Materials - U. Illinois Chicago (9M)
Mech. Anal. & Des. - U. Illinois Chicago (2B)
Mechanical Beilgn - U. Wisconsin Milwackee (10B, 3M).
Thermomechanical Eng. - U. Illinois Chicago (8B)

Metallurgical & Materials - U. Florida, Illinois Tech.. U. Pennsylvania, U. Pittsburgh, Puzdue Metallurgy - U. Illinois Chicago

Mineral - U. Alaska, U. Minnesota, Columbia (2B, 4N, 5D) Mineral Dressing - Mont. Coll. Min. Sci. (1B, 2N) Mineral Economics - Colo. Sch. Mines (6M) Mining Eng. Mgt. - Penn. St. (7M)

Nuclear Science - U. Michigan (1M, 1D)

Gas Technology - Illinois Tech Natural Gas - Texas A & 1 Petro-Chemical - Louisiana St. Baton Rouge (1B)

Engineering Systems - U.C.L.A. (40M, 16D)
Operations Research - U. Arkansas, Stanford U. (5SM, 18D), U. So. Cal,
Nest Coast U. (69M), Geo. Washington U., Poly. Brooklyn, U. Texas
Austin, Tulane U.
Op. Res./Sys. Annl. - U. Texas El Paso
Systems Analysis - U. Illinois Chicago
Systems Analysis - Air Force Inst. Tech. (17M)
Sys-Reliability - Air Force Inst. Tech (2M)
Systems Science - U.C.L.A. (18M, 11D), Michigan St.

U. Cal. Davis - 184 BS graduates, 189 degrees because of double majors. Western New England - Bachelor's degrees include 43 evening division Cornell - MS and MEng degrees combined.

Rice - Professional Masters combined with MS.

Brigham Young - Bachelor's degrees include 64 Bach. Eng. Sci. not ECPD accredited.

TECHNOLOGY DEGREES 1971-72

In response to its 1971-72 survey of technology degrees, the Engineering Manpower Commission received replies from 470 institutions. While this is fewer schools than reported last year, the number of degrees is slightly higher. There were 22,578 associate degrees, 6,768 certificates, 5,487 bachelor's degrees, and 68 advanced or post-baccalaureate degrees.

As in the past, EMC has included pre-engineering transfer students in its statistics. These students may not receive an actual associate degree but presumably transfer into schools which have recognized engineering-degree programs. Many, however, terminate their education at this level.

This year there were 370 institutions granting associate degrees, 112 certificates, 80 bachelor's degrees, and 7 advanced degrees. Many schools offered two or more of these degrees.



Since the same schools do not report from year to year, it is impossible to make accurate comparisons. It is possible, however, to show realistic trends in the historical summary of degrees awarded by schools accredited by the Engineers' Council for Professional Development. Table G indicates how the numbers of schools and degrees have grown over recent years.

Table H reports the breakdown by curriculum and degree level for 20 separate groupings. The most popular curricula are still electronics at the certificate and associate degree levels and industrial technology at the bachelor's and postbaccalaureate levels.

As with the data for engineering schools, it is difficult to report accurately the total number of women, foreign nationals, and U. S. Negroes graduating from technical institutions. The following degrees were reported in the 1972 survey:

[6 3]	Compificate		.	Post-
Women	Certificate 79	Associate 592	Bachelors 28	$\frac{\text{Bachelors}}{0}$
U.S. Negroes	158	464	125	0
Foreign Nationals	132	338	86	. 1



Tables I through L provide a complete breakdown by school, curriculum, and degree level. It should be noted that every effort has been made to report these data as completely and as accurately as possible, but it is impossible to guarantee that no errors exist in a tabulation of this size.

Table G

TECHNOLOGY DEGREES REPORTED BY INSTITUTIONS HAVING AT LEAST ONE CURRICULUM ACCREDITED BY ECPD

1954-1972¹

	the first of the control of the	_ '	the state of the s	**
		gree Programs ²	Bachelor's Deg	ree Programs
Year Ended	Number of		Number of	
June 30	_Schools	Graduates	Schools	Graduates
1972	68	9,084	15	1,736
1971	63	8,443	11	1,144
1970	52	7,740	5	720
1969	46	6,536	2	173
1968	44	6,264	1	30
1967	3 8	6,144	NO SU	
1966	37	5,270		
1965	33	5,695		
1964	32	5,507		The Committee of
1963	32	5,489		
1962	32	6,035		
1961	33	6,284		
1960	34	7,639		
1959	35	6,478		* ·
1958	35	5,928		
1957	NO S	URVEY		
1956	29	5,499		•
1955	27	4,365		
1954	27	3,927		
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Data for 1954-65 were gathered by Donald C. Metz and others for ASEE. Data for 1966 to date were provided by EMC.



² Includes ECPD-accredited programs leading to certificates.

Table H

TECHNOLOGY DEGREES BY CURRICULUM AND LEVEL

1971-72

			•	
			A Comment of the Comment	Post-
	Certificate	Associate	Bachelors	Bachelors
Aircraft	247	704	244	. 0
Air Conditioning	473	255	24	1
Architectural	222	1293	166	0
Automotive	595	914	218	0
Chemical	41	340	6	. 0
Civil	152	2123	391	0
Computer	203	1673	159	0
Drafting & Design	503	1330	187	0
Electrical	436	2055	432	3
Electronic	3283	4416	861	8
General	2	351	284	_0
Industrial Technology	58	473	1243	43
Manufacturing	6	518	444	12
Marine	2	127	6	0
Materials, Metals	68	110	12	0
Mechanical	244	2651	582	0
Mineral	0	28	0	: 0
Nuclear	0	55	5	0
Other Technology	233	1064	223	2
Pre-engineering		2098		
TOTAL	6768	22578	5487	69

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	Tschnology or Pre Engineering Degree Level - Certificate								GN				LOGY								NG					
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	ARKANSAS United Electronics Institute University of Arkansas at Little Rock				-						120	1											NA O	NA O	NA O	
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	College of the Redwoods College of the Siskiyous Long Beach City College San Bernardino Adult Vocational School San Diego Evening College	53	17	1	20 13		32	h		2	2 1 7		37	1		4				7 41		9 20 139 7	14 0 10 0	0 0 0 NA 1	O 1 NA NA	
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	FLORIDA Massey Technical Institute							5	10		15											22		2	2	
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NEW_YORK (continued) Westchester Community College					ij	34			_38_					i		16				17	109.	1	1.	5
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NORTH CAROLINA Asheville-Buncombe Technical Institute Catawon Valley Technical Institute			12		3	3	20	12		. 9 .17						8_			19.		35 80	_0	_3	0_0
Central Piedmont Community College Chowan College			6		3	11_			8	19			5.		***********	11				15_	.63.	_2	ი 0 6	.NA_ Q_
College of the Albemarle Davidson County Community College								11	7.	3						11.				3.	14 21	٥ _ ٤	6 2	O NA
Durham Technical Institute #Fayetteville Technical Institute #Forsyth Technical Institute #Gaston College		5.	12		2	17_		8		8 16 9		*	8 14			8 8 16	*********		10	16	16 56 37 86	0 3_ NA_ 0	2 1 6 0	0 0 0
Randolph Technical Institute Richmond Technical Institute							 5	5.		4_3											4 _13	NA _O	.NA	. NA
Rowan Technical Institute Sandhills Community College						.2_		6 3		10			3						.12_	20	31 22 13	NA O	NA_O	NA NA O_
Surry Community College #Technical Institute of Alamance Wayne Community College		3			5.		28	7.		8. 9.											51 16	NA	NA_	0_
Western Carolina University Wilkes Community College			9	11.	***		8					_6_			20, 200,000		مادسد.			4	4 34	_O NA:	_0. 4	_O_ NA_
Wilson County Technical Institute		11		7				7		5_			7_	h	-						37	0_	1	0
NORTH_DAKOTA North Dakota State School of Science	**************************************	20	44			21	ž4	9	65_	47										5	235	O	0	0
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Clark Technical College Columbus Technical Institute Cuvehoga Community College	47		20			13_			10	52 41					~	22				11*	154 96	.0_ 0 1	6 9	0
Franklin University Technical College							13	. 18	ia	7		4				3.			8		25. 40	O NA	NA 3	NA_
ITT Technical Institute-Dayton Kent State University-Ashtabula Campus			62					الدو مصرر مدوورو	11 16				86			6	-:				148 18 48	0 10	O NA	NA O NA
Lakeland Community College Torain County Community College					6	8	37 4	9	25		3	1 16		:	- 1,7	13_		7,,	1		99 21 49	15 0	NA NA	-NA NA
Miami University North Central Technical College #Ohio College of Applied Science #Ohio Institute of Technology (E)			.13	77	6	12	24		2 17	13 32 125	a contractor	5		*		5 38					118 125	O 2 NA	5 NA	O 4 NA
Owens Technical College #Sinclair Community College	Į -		1		e e gra Germa	1	6	1	15	10						12 11					19 _33 _26	0 1 0	1-4-2	NA_
Stark Technical College #University of Akron Technical College #University of Dayton					6	7			15	37		24 12	1			23 36			1		98 79	1 NA	2 NA	O 1 NA
University of Toledo Technical College			- 6		14	18	38	- 4		15	20	3				16						NA	NA	NA_
OKTAHOMA	1			1			12	6	ki	10					nginas s						28	2	0	0
Cameron College Eastern Oklahoma State College Northern Oklahoma College	1			5.	. 4	. 2.	15 6	5 5.		10 9					4	_6 2			28	20	<u>98</u> 23	11	40	1
Oklahoma State University-Oklahoma City #Oklahoma State University-Stillwater	17	Ţ				9	12	9 .27.		33 15		7.				-4		.2.	24 24		_89_	NA	13	2
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PENNSYLVANIA Bucks County Community College			14				5 6			7											12	NA .	ΝA	NA
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Lycoming College Penn Technical Institute	-	-		-		-	-			213			-							1	28		NA O	NA O
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Point Park College		<u> </u>				-	<u> </u>	3		37						7				ļ	37 14	0	NA	NA
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#Temple University			46		8		<u> </u>	_		_34_		1.2.			2	46					136	1_	12	_NA_
RHODE TSIAND					-	-							-										-	
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SOUTH CAROLINA #Midlands Technical Education Center		<u> </u>	19			23			-6	21		6				15					- 00	NA	N.A.	
Sumter Area Technical Education Center Tri-County Technical Education Center	-			-	-	14	-	12	Ļ							_12.			10		90 24	6	NA 1	NA 1
York Technical Education Center						-	3	13 11		15 11		9 13							7		42 45	13	4	0
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University of South Dakota-Springfield				54	_	20		17.		21			3_								115	0	0	0
TENNESSEE																								
#Chattanooga State Technical Institute					9		12		3	30						. 9		8	14	2	89	12*	0	4
Columbia_State_Community_College#State_Technical_Institute_at_Memphis			11		1	10	_16		7_	.20						12			-7.	8	89 48 72	NA50	25_	0
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Baylor University #Del Mar College		- 6							~ <u>`</u> _	27,		-							2	2 16	2 60	0	0	0 0 1
Frank Phillips College Grayson County College	-			7				8		6		·			-8					. 6	6 29	O NA	O NA	O NA
Hill Junior College Lee College					1		2	3	1	12		2							2	10	10	0	0	0
Ion Morris College San Antonio College		2		h * 1 + 10+10			69	11							Parkey Name	***	~			<u>5</u>	<u>28</u>	2	0 1 1	0
South Plains College South Texas Junior College							14	9		_15		To other products									_97 _23	NA 5_ _ 0	NA NA	NA NA
Temple Junior College Texas State Technical Institute	)	1		10. 10. 0_10.			20	2												18	18 26	0.	2	6_
University of Houston	4	22	29	20	8	16	18	20	- 8	27	٠.		2						30		202	NA NA	NA	NA
#University_of_Texas-Arlington _Wharton_County_Junior_College	9			12	. 5	8	9	10	.60_	.13			4			20					97	.NA _	2.	_NA
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UTAH #Brigham.Young University		· -		· .	·			*******											-: -:			_		
Sport Collans					4.9					6.			2.							15	8 15	NA _	O.	NA
University of Utah Utah Technical College-Provo Utah Technical College-Salt Lake City		17.71			2	ī		14 8		14			1			6						NA !		NA NA
#Weber State College	*:	: 7	14	.1	- 1		- 5	16 6	بنائب	35 16							·			.,	65	1.	NA	1
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VERMONT Middlebury College	-											*********				_					-			
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VIRGINIA DS Lancaster Community College				-1						6		_					-							
George Mason University John Tyler Community College								9				`							16	9	9]]	0	_1	0_
Northern Virginia Community College			5 4			9				28		7				.7				. 2	_28  _56	O	L	NA_
#Old Dominion University Tidewater Community College		-	$\pm 1$	$\dashv$	$\dashv$	-	5	13	<del>-</del>	6	-	{	$\dashv$	$\dashv$	-	+	-		$\cdot +$		_56 15 18	3	0	0
Virginia Commonwealth University Wytheville Community College		8	5			13		29		28		1							3	:	78	NA	NA	NA
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WASHINGTON Centralia College Edmunds Community College Green River Community College Highline Community College Lower Columbia College North Seattle Community College North Seattle Community College Pacific Lutheran University Seattle Central Community College Shoreline Community College Shagit Valley College Walla Walla College Yakima Valley College			10	8 8 1	2 2*	11 7 6 4 9	10	15 . 6 . 8 	. 3.	7 18 6 25 30* 16		22 1 4		19		7 10 5			43 5 20*	6 15 15 10 2 24*	24 22 105 51 49 36 42 52 98 42 1 37	0 1 0 2 NA NA 0 0 NA 4* NA 0	O NA O O NA O O NA O O	0 NA 0 2 NA NA 0 0 NA 5* NA 0
WEST VIRGINIA Bluefield State College Potomac State College West Virginia Institute of Technology			7			10 17	11	14 13	20 26	3	The same				**************************************	5 19	2		3	6	51 2h 75	NA 1	3 NA 3*	O NA O
WISCONSIN  Gateway Technical Institute  Lakeshore Technical Institute  Mid State Technical Institute  Midwaukee Area Technical College  #Milwaukee School of Engineering  Moraine Park Technical Institute  North Central Technical Institute  Northeast Wisconsin Technical Institute  St. Norbert College  Waukesha County Technical Institute  Western Wisconsin Technical Institute		12 11	17 23 2 ¹ 4 27	16 23	10 6	12 7 25	1 24 15	12 13 18 11 14	67.8	12 9 40 27 8 15	.29	17	5		6	14 6 50 17	5.		8 8 7	3.	40 23 46 204 168 30 87 93 26 70	0 1 2 2 0 0 0 0 6	NA NA O NA NA O O NA O O NA	0 NA 0 2 15 0 0 NA 0 NA
WYOMING Casper College Central Wyoming College Sheridan College Western Wyoming College	end's		200	) <b>4</b>		2	5	3		11	The second	<b>"</b>		144				****	3.	7 3 5	33 _3 _7	14 NA O NA	NA NA O NA	NA NA 1 NA
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⁽E) - estimated by EMC
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^{* -} estimated by school

^{# -} on list of schools having st/least one bachelors level curriculum accredited by the Engineers Council for Professional Development



TABLE

Technology or Pre-Engineering Degree Level - POST-BACHELORS	· AIRCRAFT	AIR CONDITIONING	ARCHITECTURAL	AUTOMOTIVE	CHEMICAL	CIVIL	COMPUTER	DRAFTING AND DESIGN	ELECTRICAL	ELECTRONIC	GENERAL	INDUSTRIAL TECHNOLOGY	MANUFACTURING	MARINE	MATERIALS, METALS	) MECHANICAL	MINERAL	NUCLEAR	OTHER TECHNOLOGY	STUDENTS COMPLETING PRE-ENGINEERING PROGRAM	TOTAL TECHNOLOGY	WOMEN	U. S. NEGRO	FOREIGN
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## Notes on Technology Degrees

Technology curricula have so many different titles that is is impossible to list them all. In general, curricula have been grouped under the common heading to which they appear to be most closely related - Building Construction in included under Architectural, Electromechanical under Electrical, Tool under Manufacturing, etc. In some instances it has been necessary to make arbitrary assignment between related fields such as Mechanical and Manufacturing, or Civil and Architectural Technology. In order to distinguish Industrial Engineering Technology from Industrial Technology programs, the former are arbitrarily listed under Manufacturing. Some listed as Industrial Technology appear to be more properly described as Industrial Arts or Industrial Education. In a few cases the qualification of curricula as Engineering Technology or Industrial Technology may be marginal, as EMC is unable to evaluate the content of those curricula that are not accredited by ECPD.

Many curricula listed as Certificate programs are of unknown quality and may not be equivalent to Associate Degree programs, although any that were clearly not of at least two-years' duration have been excluded from the tabulation.

The following degrees reported by ECPD schools only are included under the category of "All Other Technology" in the main data tables:

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## ENGINEERS JOINT COUNCIL

## MEMBER SOCIETIES

American Society of Civil Engineers American Institute of Mining, Metallurgical and Petroleum Engineers American Society of Mechanical Engineers American Society for Engineering Education American Society for Testing and Materials American Society of Agricultural Engineers American Institute of Consulting Engineers American Society for Metals Society of Manufacturing Engineers Society for Experimental Stress Analysis Instrument Society of America American Society for Quality Control American Institute of Industrial Engineers Society of Fire Protection Engineers American Institute of Plant Engineers American Association of Cost Engineers

## ASSOCIATE SOCIETIES

Air Pollution Control Association National Institute of Ceramic Engineers American Society for Nondestructive Testing Society of Packaging and Handling Engineers International Material Management Society Society of Women Engineers Society for the History of Technology Society of Aeronautical Weight Engineers American Concrete Institute Society of American Military Engineers Western Society of Engineers Louisiana Engineering Society Washington Society of Engineers Engineering Societies of New England South Carolina Society of Engineers Los Angeles Council of Engl eers and Scientists Hartford Engine rs Club International Material Management Society (New Jersey Chapter) Cleveland Engineering Society Danville Engineers Club