

F
Y

2
0
2
3



RESEARCH CATALOG



OCTOBER 2023

PREFACE

FY 2023 RESEARCH CATALOG

The external resources identified in the *Research Catalog* are an indication of the national competitiveness of the universities in the state of Mississippi and of the quality research and sponsored programs they conduct. These resources provide essential funds to the state's public universities which strengthen the research, teaching, and service missions of the universities.

The *Research Catalog* is mandated by the State through the University Research Center Act of 1988 (§ 37-141-17). The publication lists the funding amounts by the sources of funding and by the university disciplines receiving the funding. It is designed for use by state policy makers, the educational community, economic developers, and the general public as a resource to:

1. Assist in developing strong legislative funding support for research,
2. Improve the regional, national, and international image of Mississippi universities as research institutions,
3. Encourage continued and expanded external funding support for state university research and sponsored programs, and
4. Enhance further development of technology transfer and practical applications of research which impact the state's economy.

The *Research Catalog* includes only external awards and non-appropriated state awards for research and sponsored programs. External funds for student financial aid are not included in the totals.

For more specific information about university research programs, contact the designated research official listed for each university. For additional information about the Research Catalog, contact:

Office of Strategic Research
3825 Ridgewood Road
Jackson, MS 39211
Phone: (601) 432-6445
www.mississippi.edu/research

BOARD OF TRUSTEES
STATE INSTITUTIONS of HIGHER LEARNING

Dr. Alfred E. McNair, Jr., President
Ocean Springs

Bruce Martin, Vice President
Meridian

Dr. Ormella Cummings
Tupelo

Dr. Steven Cunningham
Hattiesburg

Tom Duff
Hattiesburg

Teresa Hubbard
Oxford

Jeanne Carter Luckey
Ocean Springs

Chip Morgan
Leland

Powell “Gee” Ogletree, Jr.
Ridgeland

Hal Parker
Bolton

Gregory Rader
Columbus

Dr. J. Walt Starr
Columbus

Dr. Alfred Rankins, Jr.
Commissioner of Higher Education

INSTITUTION EXECUTIVE OFFICERS

Dr. Tracy M. Cook, Interim President
Alcorn State University

Dr. Daniel J. Ennis, President
Delta State University

Dr. Elayne Hayes-Anthony, Temporary Acting President
Jackson State University

Dr. Mark E. Keenum, President
Mississippi State University

Ms. Nora R. Miller, President
Mississippi University for Women

Dr. Jerryl Briggs, President
Mississippi Valley State University

Dr. Glenn Boyce, Chancellor
University of Mississippi

Dr. Joseph Paul, President
University of Southern Mississippi

Dr. LouAnn H. Woodward, Vice Chancellor for Health Affairs
University of Mississippi Medical Center

Dr. Keith Coble, Vice President
Agriculture, Forestry and Veterinary Medicine
Mississippi State University

TABLE OF CONTENTS

Preface.....	i
Board of Trustees.....	ii
Institutional Executive Officers.....	iii
Table of Contents.....	iv
System Summary.....	1
System History.....	2
System Trend of Federal Funding.....	3
Federal Funding in Descending Order.....	4
System Trend of Non-Federal Funding.....	5
Alcorn State University.....	6
Delta State University	7
Jackson State University.....	8
Mississippi State University.....	9
Mississippi University for Women.....	11
Mississippi Valley State University.....	12
University of Mississippi with the University of Mississippi Medical Center.....	13
University of Southern Mississippi.....	15
IHL Executive Office.....	17
UNIVERSITY RESEARCH GROUPS.....	18
Mississippi University Research Authority (MURA).....	19
Mississippi Research Consortium (MRC).....	20
Mississippi Education and Research Group (MERG).....	21

MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

FY 2023 Research Catalog - IHL System Summary

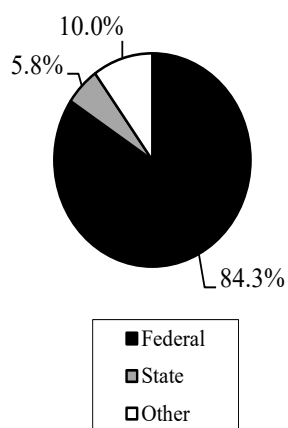
Dr. Alfred Rankins, Commissioner

Period Covered: July 1, 2022 - June 30, 2023

University	Federal*	State/Local	Private/ Corporate/Other	Total Funding Awarded
ASU	\$16,704,661	\$477,345	\$1,771,428	\$18,953,434
DSU	\$6,341,786	\$903,787	\$3,635,398	\$10,880,971
JSU	\$34,811,566	\$3,847,658	\$7,662,657	\$46,321,881
MSU	\$252,176,812	\$8,673,022	\$17,527,705	\$278,377,539
MUW**	\$486,975	\$5,217,383	\$6,112	\$5,710,470
MVSU	\$7,219,776	\$789,148	\$781,619	\$8,790,543
UM/UMMC	\$140,814,078	\$7,269,398	\$29,465,577	\$177,549,053
USM	\$74,421,447	\$9,324,590	\$2,457,162	\$86,203,199
Exec. Office	\$3,701,646	\$150,000	\$50,000	\$3,901,646
SYSTEM	\$536,678,747	\$36,652,331	\$63,357,658	\$636,688,736

University	Total Research Projects Supported*
ASU	33
DSU	49
JSU	157
MSU	901
MUW**	15
MVSU	20
UM/UMMC	622
USM	326
Exec. Office	4
SYSTEM	2,127

Percent of Funding Sources



*Includes federal HEERF/CARES funds disbursed from multiple agencies.

** MUW amount includes funds for the Mississippi School for Math and Science.

MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

System History - Research and Sponsored Programs

Total External Funding Five-Year Comparison

University	FY 2019	FY2020*	FY 2021*	FY 2022*	FY 2023*
ASU	\$15,596,654	\$32,310,993	\$52,691,221	\$24,645,491	\$18,953,434
DSU	\$3,761,373	\$5,589,152	\$15,535,871	\$6,133,936	\$10,880,971
JSU	\$25,837,499	\$54,370,695	\$96,362,070	\$101,684,095	\$46,321,881
MSU	\$210,700,057	\$260,095,082	\$334,019,338	\$250,906,830	\$278,377,539
MUW**	\$5,069,273	\$7,644,973	\$19,645,022	\$5,772,812	\$5,710,470
MVSU	\$8,455,354	\$15,293,881	\$29,592,299	\$22,962,893	\$8,790,543
UM/UMMC	\$133,749,642	\$153,685,366	\$242,380,932	\$171,162,656	\$177,549,053
USM	\$72,672,919	\$75,450,103	\$122,583,637	\$91,459,490	\$86,203,199
Exec. Office	\$2,626,739	\$2,142,455	\$3,862,398	\$8,152,074	\$3,901,646
SYSTEM	\$478,469,510	\$606,582,700	\$916,672,788	\$682,880,277	\$636,688,736

Percent Change in Total External Funding

University	FY 2019 to FY 2020	FY 2020 to FY 2021	FY 2021 to FY 2022	FY 2022 to FY 2023
ASU	107.2%	63.1%	-53.2%	-23.1%
DSU	48.6%	178.0%	-60.5%	77.4%
JSU	110.4%	77.2%	5.5%	-54.4%
MSU	23.4%	28.4%	-24.9%	10.9%
MUW**	50.8%	157.0%	-70.6%	-1.1%
MVSU	80.9%	93.5%	-22.4%	-61.7%
UM	14.9%	57.7%	-29.4%	3.7%
USM	3.8%	62.5%	-25.4%	-5.7%
Exec. Office	-18.4%	80.3%	111.1%	-52.1%
SYSTEM	26.8%	51.1%	-25.5%	-6.8%

Percent Change in Total Projects Supported

Fiscal Year	# of Projects	% Change
FY 2019	2,607	5.5%
FY 2020*	2,020	-22.5%
FY 2021*	2,115	4.7%
FY 2022*	2,243	6.1%
FY 2023*	2,127	0.6%

*Includes federal HEERF/CARES funds disbursed from multiple agencies.

** MUW amount includes funds for the Mississippi School for Math and Science.

**FY 2022 Research and Sponsored Programs
System Trend of Federal External Funding**

Funding Source	2021 Total*	2022 Total*	2023 Total*	% Change	
				2021-23	2022-23
Agency for Healthcare Research and Quality	\$600,000	\$3,000	\$0	-100.0%	-100.0%
Appalachian Regional Commission	\$0	\$1,971,728	\$1,045,000	--	-47.0%
Central Intelligence Agency	\$0	\$215,000	\$0	--	-100.0%
Corporation for National & Community Service	\$1,318,590	\$1,339,997	\$1,067,810	-19.0%	-20.3%
Corporation for Public Broadcasting	\$274,187	\$338,434	\$195,625	-28.7%	-42.2%
Delta Regional Authority	\$250,000	\$0	\$0	-100.0%	--
ESSER	\$0	\$0	\$951,463	--	--
Federal Aviation Association	\$0	\$121,763	\$442,290	--	263.2%
Federal Emergency Management Agency	\$0	\$0	\$17,454	--	--
Health Resource and Services Administration	\$14,527,496	\$23,053,011	\$14,042,649	-3.3%	-39.1%
HEERF/CARES	\$0	\$53,269,918	\$571,441	--	-98.9%
Institute of Museum and Library Sciences	\$23,994	\$50,000	\$749,086	3022.0%	1398.2%
IREX-Global UG Exchange Program	\$0	\$29,001	\$0	--	-100.0%
Library of Congress	\$220,000	\$188,281	\$113,895	-48.2%	-39.5%
Military Suicide Research Consortium	\$14,825	\$0	\$0	-100.0%	--
Mississippi Band of Choctaw Indians	\$0	\$5,000	\$0	--	-100.0%
MS Delta National Heritage Ares	\$15,000	\$0	\$0	-100.0%	--
National Aeronautics and Space Administration	\$9,579,306	\$5,519,558	\$7,978,176	-16.7%	44.5%
National Endowment for the Arts	\$8,100	\$25,000	\$40,675	402.2%	62.7%
National Endowment for the Humanities	\$452,863	\$70,400	\$807,092	78.2%	1046.4%
National Geospatial Agency	\$368,614	\$270,020	\$0	-100.0%	-100.0%
National Humanities Council	\$0	\$0	\$3,550	--	--
National Institutes of Health*	\$75,445,117	\$72,971,924	\$67,677,703	-10.3%	-7.3%
National Museum of African American History and Culture	\$0	\$128,250	\$0	--	-100.0%
National Park Service	\$832,411	\$400,000	\$549,300	-34.0%	37.3%
National Science Foundation	\$25,769,262	\$33,496,480	\$33,087,804	28.4%	-1.2%
National Security Agency	\$89,988	\$500,319	\$417,422	363.9%	-16.6%
Nuclear Regulatory Commission	\$54,000	\$0	\$0	-100.0%	--
Tennessee Valley Authority	\$130,000	\$583,000	\$673,781	418.3%	15.6%
U.S. Agency for International Development	\$2,630,348	\$1,374,006	\$6,423,550	144.2%	367.5%
U.S. Air Force	\$308,000	\$320,964	\$373,040	21.1%	16.2%
U.S. Army Engineer Research & Development Center	\$0	\$0	\$500,000	--	--
U.S. Department of Agriculture	\$82,297,433	\$80,624,509	\$98,701,089	19.9%	22.4%
U.S. Department of Commerce	\$33,671,025	\$32,290,133	\$39,687,024	17.9%	22.9%
U.S. Department of Defense	\$60,246,013	\$54,737,185	\$54,255,734	-9.9%	-0.9%
U.S. Department of Education	\$398,401,876	\$83,030,336	\$56,900,712	-85.7%	-31.5%
U.S. Department of Energy	\$8,247,533	\$14,208,395	\$13,167,710	59.7%	-7.3%
U.S. Department of Health and Human Services	\$39,909,340	\$59,789,135	\$78,566,220	96.9%	31.4%
U.S. Department of Homeland Security	\$6,333,655	\$11,179,422	\$11,540,803	82.2%	3.2%
U.S. Department of Housing and Urban Development	\$0	\$706,898	\$402,165	--	-43.1%
U.S. Department of Interior	\$1,443,291	\$8,485,573	\$4,705,485	226.0%	-44.5%
U.S. Department of Justice	\$1,524,991	\$3,340,016	\$3,108,296	103.8%	-6.9%
U.S. Department of Labor	\$5,960,713	\$9,544,675	\$7,927,094	33.0%	-16.9%
U.S. Department of State	\$0	\$108,849	\$0	--	-100.0%
U.S. Department of Transportation	\$10,753,397	\$10,142,654	\$11,862,165	10.3%	17.0%
U.S. Department of Treasury	\$8,947,562	\$7,715,857	\$4,073,930	-54.5%	-47.2%
U.S. Department of Veterans Affairs	\$127,610	\$20,466	\$171,836	34.7%	739.6%
U.S. Election Assistance Commission	\$0	\$0	\$219,113	--	--
U.S. Environmental Protection Agency	\$2,206,945	\$2,919,315	\$837,456	-62.1%	-71.3%
U.S. Fish and Wildlife Service	\$126,605	\$0	\$0	-100.0%	--
U.S. Food and Drug Administration	\$0	\$0	\$24,000	--	--
U.S. Geological Survey	\$350,042	\$174,061	\$239,275	-31.6%	37.5%
U.S. National Archives and Records Administration	\$100,000	\$108,925	\$435,830	335.8%	300.1%
U.S. Navy	\$0	\$0	\$0	--	--
U.S. Securities and Exchange Commission	\$272,122	\$210,098	\$0	-100.0%	-100.0%
U.S. Small Business Administration	\$2,783,903	\$3,287,157	\$12,124,004	335.5%	268.8%
Total	\$796,016,157	\$578,868,713	\$536,678,747	-32.6%	-7.3%

*Includes federal HEERF/CARES funds disbursed from multiple agencies.

**Summary of Federal External Funding by Funding Source
in Descending Order of Totals by Source, FY 2023***

	ASU	DSU	JSU	MSU	MUW	MV/SU	UM	USM	EO	Grand Total
Appalachian Regional Commission				1,045,000						1,045,000
Corporation for National & Community Service				284,099				294,596	489,115	1,067,810
Corporation for Public Broadcasting	195,625									195,625
ESSER via MS Department of Education		951,463								951,463
Federal Aviation Association via MS State University		442,290								442,290
Federal Emergency Management Agency								17,454		17,454
Health Resource and Services Association				1,000,000			13,042,649			14,042,649
HEERF/CARES							571,441			571,441
Institute of Museum and Library Sciences				749,086						749,086
Library of Congress				29,984				83,911		113,895
National Aeronautics and Space Administration		15,000		2,676,928	46,777		3,167,117	2,072,354		7,978,176
National Endowment for the Arts		20,000		4,500	5,225			10,950		40,675
National Endowment for the Humanities		20,811		715,319	3,500	59,962		7,500		807,092
National Humanities Council		3,550								3,550
National Institutes of Health		61,752	5,175,523	5,562,101	200,072		56,678,255			67,677,703
National Park Service		549,300								549,300
National Science Foundation		50,000	5,855,438	16,969,346			5,812,927	4,400,093		33,087,804
National Security Agency				417,422						417,422
Tennessee Valley Authority				673,781						673,781
U.S. Agency of International Development				6,423,550						6,423,550
U.S. Air Force		373,040								373,040
U.S. Army Eng Research & Development Center								500,000		500,000
U.S. Department of Agriculture	9,550,830		500,000	74,256,038			12,793,467	1,600,754		98,701,089
U.S. Department of Commerce				17,157,343			4,700,000	17,829,681		39,687,024
U.S. Department of Defense			1,399,734	31,604,135			7,537,991	13,713,874		54,255,734
U.S. Department of Education	6,798,206	3,854,580	17,230,305	8,470,160	231,401	6,588,373	7,054,125	4,665,711	2,007,851	56,900,712
U.S. Department of Energy			1,141,298	10,695,649			1,038,762	292,001		13,167,710
U.S. Department of Health and Human Services				37,784,137			16,952,912	22,135,376	1,693,795	78,566,220
U.S. Department of Homeland Security	160,000		50,000	6,086,630			2,244,173	3,000,000		11,540,803
U.S. Department of Housing and Urban Development								402,165		402,165
U.S. Department of Interior			1,249,268	2,290,155			131,592	1,034,470		4,705,485
U.S. Department of Justice				1,562,205			1,469,420	76,671		3,108,296
U.S. Department of Labor				7,859,379				67,715		7,927,094
U.S. Department of Transportation				9,362,165			2,500,000			11,862,165
U.S. Department of Treasury				2,359,001			27,742	1,687,187		4,073,930
U.S. Department of Veterans Affairs				25,916			145,920			171,836
U.S. Election Assistance Commission				219,113						219,113
U.S. Environmental Protection Agency			60,000	577,456			200,000			837,456
U.S. Food and Drug Administration							24,000			24,000
U.S. Geological Survey				239,275						239,275
U.S. National Archives and Records Admin								435,830		435,830
U.S. Small Business Administration			2,150,000	5,076,939			4,897,065			12,124,004
Grand Total	16,704,661	6,341,786	34,811,566	252,176,812	486,975	7,219,776	140,814,078	74,421,447	3,701,646	536,678,747

FY 2023 Research and Sponsored Programs
System Trend of State, Private, Corporate, & Other External Funding

Funding Source	2021 Total	2022 Total	2023 Total	2021-22	2022-23
				% Change	% Change
State Funding [other than general appropriation]	\$6,563,494	\$4,883,733	\$5,208,383	-20.6%	6.6%
State of Mississippi Agencies	\$50,616,792	\$32,546,979	\$25,340,032	-49.9%	-22.1%
Private/Corporate Business and Industry	\$30,810,110	\$21,247,336	\$15,700,036	-49.0%	-26.1%
Foundations and Non-Profit Groups*	\$25,796,963	\$33,272,824	\$39,078,478	51.5%	17.4%
Other In-State Universities	\$2,010,792	\$2,335,558	\$4,900,892	143.7%	109.8%
Other Out-of-State Universities	\$2,998,589	\$4,211,673	\$6,338,288	111.4%	50.5%
Local Governments	\$837,417	\$1,443,523	\$1,203,024	43.7%	-16.7%
Other State Governments	\$156,977	\$2,902,340	\$1,563,946	896.3%	-46.1%
Foreign Governments & Organizations	\$255,497	\$927,562	\$620,798	143.0%	-33.1%
Other [all other sources not listed above]	\$10,000	\$240,036	\$56,112	461.1%	-76.6%
Total	\$120,056,631	\$104,011,564	\$100,009,989	-16.7%	-3.8%

Percent of Total	2021 Total	2022 Total	2023 Total	2021-22	2022-23
				Change	Change
State Funding [other than general appropriation]	5.5%	4.7%	5.2%	-0.3%	0.5%
State of Mississippi Agencies	42.2%	31.3%	25.3%	-16.8%	-6.0%
Private/Corporate Business and Industry	25.7%	20.4%	15.7%	-10.0%	-4.7%
Foundations and Non-Profit Groups*	21.5%	32.0%	39.1%	17.6%	7.1%
Other In-State Universities	1.7%	2.2%	4.9%	3.2%	2.7%
Other Out-of-State Universities	2.5%	4.0%	6.3%	3.8%	2.3%
Local Governments	0.7%	1.4%	1.2%	0.5%	-0.2%
Other State Governments	0.1%	2.8%	1.6%	1.4%	-1.2%
Foreign Governments & Organizations	0.2%	0.9%	0.6%	0.4%	-0.3%
Other [all other sources not listed above]	0.0%	0.2%	0.1%	0.0%	-0.2%
Total	100.0%	100.0%	100.0%	0.0%	0.0%

*Includes federal HEERF/CARES funds disbursed from multiple agencies.

Alcorn State University
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Tracy M. Cook
Phone number: 601-877-6111

Dr. Edmund Buckner, Chief Research Officer
Phone number: 601-877-3394

	Number of Projects	Amount
I. Funding Distribution - College/Division		
Office of Community Development	6	\$4,915,244
School of Agriculture, Research, Extension, and Applied Sciences	20	\$6,860,902
School of Arts and Sciences	5	\$371,882
School of Business	0	\$0
School of Education and Psychology	0	\$0
School of General College of Excellence	0	\$0
School of Graduate Studies	0	\$0
School of Nursing	1	\$7,200
Title III Strengthening Institutional Programs	1	\$6,798,206
TOTAL	33	\$18,953,434
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
U.S. Department of Agriculture	14	\$9,550,830
U.S. Department of Education	1	\$6,798,206
U.S. Department of Homeland Security	1	\$160,000
Corporation for Public Broadcasting	2	\$195,625
HEERF	0	\$0
TOTAL Federal Sources	18	\$16,704,661
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	2	\$220,244
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	5	\$312,000
Other In-State Universities	3	\$257,101
Other Out-of-State Universities	5	\$1,459,428
Local Governments	0	\$0
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	15	\$2,248,773
GRAND TOTAL of ALL EXTERNAL FUNDING	33	\$18,953,434

Delta State University
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Daniel J. Ennis, President
Phone number: 662-846-4000

Ms. Heather K. Miller, Chief Research Officer
Phone Number: 662-846-4804

	Number of Projects	Amount
I. Funding Distribution - College/Division		
Bologna Performing Arts Center	2	\$14,750
Center for Community and Economic Development	5	\$3,432,146
College of Arts and Sciences	9	\$232,792
Delta Music Institute	3	\$30,250
College of Business and Aviation	4	\$1,479,536
College of Education and Human Sciences	4	\$1,379,792
Communications and Marketing	2	\$494,800
Delta Center for Culture and Learning	3	\$620,811
Graduate and Honors Studies	3	\$661,274
Office of Provost and Vice-President of Academic Affairs	1	\$5,000
Office of Vice-President of Finance and Administration	1	\$746,851
Office of Vice-President of Student Affairs	2	\$60,500
Diversity, Equity, and Inclusion	3	\$22,925
Robert E. Smith School of Nursing	3	\$1,236,000
Roberts-LaForge Library	1	\$10,000
Student Success Center	3	\$453,544
TOTAL	49	\$10,880,971
II. Funding Sources:		
FEDERAL External Funding by Agency/Department		
National Endowment for the Arts	1	\$20,000
National Endowment for the Humanities	1	\$20,811
U.S. Department of Education	5	\$3,854,580
National Park Service	1	\$500,000
U.S. Air Force	1	\$373,040
ESSER via MS Department of Education	1	\$951,463
Federal Aviation Association via MS State University	2	\$442,290
National Humanities Council via the Mississippi Humanities Council	2	\$3,550
National Park Service via MS Delta National Heritage Area	2	\$49,300
National Institute of Health via MS INBRE	3	\$61,752
National Science Foundation via Jackson State	1	\$50,000
NASA via University of Mississippi	1	\$15,000
TOTAL Federal Sources	21	\$6,341,786
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State of Mississippi Agencies	5	\$903,787
Foundations and Non-Profit Groups	23	\$3,635,398
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	28	\$4,539,185
GRAND TOTAL of ALL EXTERNAL FUNDING	49	\$10,880,971

Jackson State University
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Elayne Hayes-Anthony, Temporary Acting President
Phone number: 601-979-1591

Dr. Joseph A. Whittaker, Vice President for Research and Economic Development
Phone number: 601-979-2008

	Number of Projects	Amount
I. Funding Distribution - College/Division		
Office of the President	4	\$13,513,805
College of Business	3	\$309,179
College of Education and Human Development	17	\$1,805,495
College of Health Sciences	9	\$1,548,114
College of Liberal Arts	13	\$1,607,893
College of Engineering, Science and Technology	79	\$16,994,209
Department of Public Safety	0	\$0
Division of Academic Affairs	14	\$3,100,365
Division of Information Technology	1	\$249,905
Division of Institutional Advancement	5	\$1,823,368
Office of Research and Economic Development	10	\$5,119,548
Student Affairs	2	\$250,000
TOTAL	157	\$46,321,881

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Health Resource and Services Association	0	\$0
National Library of Congress	0	\$0
National Aeronautics and Space Administration	0	\$0
National Museum of African American History and Culture	0	\$0
National Institutes of Health	13	\$5,175,523
National Science Foundation	12	\$5,855,438
U.S. Department of Agriculture	1	\$500,000
U.S. Department of Defense	9	\$1,399,734
U.S. Department of Education	19	\$17,230,305
U.S. Department of Energy	4	\$1,141,298
U.S. Department of Homeland Security	1	\$50,000
U.S. Department of Interior	4	\$1,249,268
U.S. Environmental Protection Agency	1	\$60,000
U.S. Small Business Administration	2	\$2,150,000
TOTAL Federal Sources	66	\$34,811,566

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	12	\$1,561,984
Private/Corporate Business and Industry	10	\$2,756,962
Foundations and Non-Profit Groups	25	\$1,827,571
Other State Governments	0	\$0
Other In-State Universities	11	\$1,614,583
Other Out-of-State Universities	28	\$3,078,124
Local Governments	5	\$671,091
Foreign Governments & Organizations	0	\$0
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	91	\$11,510,315

GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	157	\$46,321,881
---	------------	---------------------

Mississippi State University
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Mark E. Keenum, President
Phone number: 662-325-3221

Dr. Julie Jordan, Vice President for Research and Economic Development
Phone number: 662-325-3570

I. Funding Distribution - College/Division	Number of Projects	Amount
Bagley College of Engineering	132	\$46,945,598
College of Architecture, Art, and Design	14	\$653,137
College of Arts and Sciences	85	\$14,144,773
College of Business	7	\$2,990,292
College of Education	42	\$7,936,908
College of Forest Resources/Forest Wildlife Research Center	97	\$22,686,120
College of Veterinary Medicine	27	\$3,551,652
Division of Student Affairs	6	\$707,825
Honors College	1	\$150,000
Mitchell Memorial Library	2	\$3,500
MS Agricultural and Forestry Experiment Station (MAFES)/CALS	231	\$38,290,243
MS State University Extension Service (MSU ES)	128	\$56,842,395
Office of Graduate Studies	1	\$184,000
University Branch Campus (Meridian)	2	\$1,004,000
University Centers and Institutes	116	\$76,487,649
University Television Center	1	\$47,250
Vice President for Access, Diversity & Inclusion	3	\$739,437
Vice President for Campus Services	2	\$2,602,747
Vice President for Research and Economic Development	4	\$2,410,014
TOTAL	901	\$278,377,540

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Appalachian Regional Commission	4	\$1,045,000
Corporation for National & Community Service	2	\$284,099
Health Resource and Services Association	1	\$1,000,000
Institute of Museum and Library Sciences	1	\$749,086
National Aeronautics and Space Administration	27	\$2,676,928
National Endowment for the Arts	1	\$4,500
National Endowment for the Humanities	6	\$715,319
National Institutes of Health	30	\$5,562,101
National Science Foundation	66	\$16,969,346
National Security Agency	2	\$417,422
U.S. Agency of International Development	6	\$6,423,550
U.S. Department of Agriculture	194	\$74,256,038
U.S. Department of Commerce	31	\$17,157,343
U.S. Department of Defense	49	\$31,604,135
U.S. Department of Education	21	\$8,470,160
U.S. Department of Energy	22	\$10,695,649
U.S. Department of Health and Human Services	35	\$37,784,137
U.S. Department of Homeland Security	4	\$6,086,630

Mississippi State University
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

II. Funding Sources (Continued)	Number	
FEDERAL External Funding by Agency/Department	of Projects	Amount
U.S. Department of Interior	41	\$2,290,155
U.S. Department of Justice	5	\$1,562,205
U.S. Department of Labor	8	\$7,859,379
U.S. Department of Transportation	9	\$9,362,165
U.S. Department of Veterans Affairs	1	\$25,916
U.S. Environmental Protection Agency	3	\$577,456
U.S. Geological Survey	3	\$239,275
U.S. Small Business Administration	7	\$5,076,939
Library of Congress	1	\$29,984
Tennessee Valley Authority	3	\$673,781
U.S. Department of Treasury	3	\$2,359,001
U.S. Election Assistance Commission	1	\$219,113
TOTAL Federal Sources	587	\$252,176,812
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	38	\$8,391,964
Private/Corporate Business and Industry	81	\$3,980,862
Foundations and Non-Profit Groups	165	\$12,585,075
Other In-State Universities	2	\$31,804
Other Out-of-State Universities	8	\$188,721
Local Governments	10	\$249,254
Other State Governments	5	\$467,171
Foreign Governments & Organizations	5	\$305,876
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER	314	\$26,200,727
GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	901	\$278,377,539

**Mississippi University for Women
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023**

**Ms. Nora Miller, President
Phone number 662-329-7100**

**Dr. C. Scott Tollison, Provost & Vice President for Academic Affairs
Phone number: 662-329-7142**

I. Funding Distribution - College/Division	Number of Projects	Amount
Academic Support*	3	\$5,441,284
College of Arts & Sciences	11	\$260,186
Institutional Support	1	\$9,000
TOTAL	15	\$5,710,470

*Includes total for Mississippi School for Math and Science

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	4	\$46,777
National Endowment for the Arts	2	\$5,225
National Endowment for the Humanities	2	\$3,500
National Institutes of Health	3	\$200,072
U.S. Department of Education	1	\$231,401
TOTAL Federal Sources	12	486,975

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	1	\$5,208,383
State of Mississippi Agencies	1	\$9,000
Other [<u>all other sources not listed above</u>]	1	\$6,112
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	3	\$5,223,495

GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	15	\$5,710,470
---	-----------	--------------------

**Mississippi Valley State University
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023**

**Dr. Jerryl Briggs, President
Phone Number: 662-254-3425**

**Mr. Samuel Melton, Jr., Chief Research Officer
Phone Number: 662-254-3882**

	Number of	
	Projects	Amount
I. Funding Distribution - College/Division		
Department of English and Foreign Languages	1	\$59,962
Department of Mathematics, Computer and Information Sciences	2	\$187,485
Department of Natural Sciences and Environmental Health	4	\$830,986
Division of Academic Affairs	4	\$703,134
Division of Student Affairs	1	\$2,000
Office of Business and Finance	1	\$464,289
Office of the President	2	\$575,441
Title III Strengthening Institutions Programs	2	\$4,579,969
University College	3	\$1,387,277
TOTAL	20	\$8,790,543
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
HEERF/CARES	1	\$571,441
National Endowment for the Humanities	1	\$59,962
U.S. Department of Education	6	\$6,588,373
TOTAL Federal Sources	8	\$7,219,776
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	1	\$464,289
Private/Corporate Business and Industry	1	\$4,000
Foundations and Non-Profit Groups	5	\$777,619
Other In-State Universities	5	\$324,859
Other Out-of-State Universities	0	\$0
Local Governments	0	\$0
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other <u>[all other sources not listed above]</u>	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	12	\$1,570,767
GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	20	\$8,790,543

University of Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Glenn Boyce, Chancellor
Phone number: 662-915-7428

Dr. Joseph R. Gladden, Vice Chancellor for Research
Phone number: 662-915-7583

Dr. LouAnn H. Woodward, Vice Chancellor for Health Affairs
Phone number: 601-984-1058

Dr. Richard Summers, Associate Vice Chancellor for Research
Phone number: 601-858-5000

I. Funding Distribution - College/Division	Number of Projects	Amount
A. Oxford Campus		
College of Liberal Arts	73	\$12,038,749
Community First Research Center	3	\$578,446
Graduate School	4	\$466,980
National Center for Physical Accoustics	24	\$9,010,433
Office of the Provost	7	\$449,050
Office of the Vice Chancellor for Research and Sponsored Programs	1	\$10,000
Office of Vice Chancellor for Student Life	4	\$200,520
School of Accountancy	2	\$1,893,000
School of Applied Sciences	6	\$6,437,621
School of Business Administration	8	\$4,938,891
School of Education	45	\$12,018,483
School of Engineering	58	\$14,145,873
School of Journalism	2	\$139,652
School of Law	16	\$1,514,628
School of Pharmacy	57	\$16,898,182
University of Mississippi Field Station	1	\$20,000
Total Oxford	311	\$80,760,508
B. Medical Center		
School of Dentistry	2	\$1,325,961
School of Medicine	269	\$80,056,796
School of Nursing	17	\$3,945,642
School of Health Related Professions	2	\$234,128
School of Population Health	14	\$971,949
UP-Telehealth Services	3	\$9,257,348
Office of Mississippi Physician Workforce	1	\$800,000
UMMC Service Area - Accounting	1	\$20,181
Resuscitation Training Center	1	\$16,540
UMMC Campus Police Department	1	\$160,000
Total Medical Center	311	\$96,788,545
TOTAL (UM + UMMC)	622	\$177,549,053

University of Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

II. Funding Sources

FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	2	\$294,596
Federal Emergency Management Agency	1	\$17,454
Health Resource and Services Association	26	\$13,042,649
Library of Congress	1	\$83,911
National Aeronautics and Space Administration	17	\$3,167,117
National Institutes of Health	169	\$56,678,255
National Science Foundation	25	\$5,812,927
U.S. Department of Agriculture	16	\$12,793,467
U.S. Department of Commerce	5	\$4,700,000
U.S. Department of Defense	9	\$7,537,991
U.S. Department of Education	4	\$7,054,125
U.S. Department of Energy	7	\$1,038,762
U.S. Department of Health and Human Services	33	\$16,952,912
U.S. Department of Homeland Security	2	\$2,244,173
U.S. Department of Interior	4	\$131,592
U.S. Department of Justice	3	\$1,469,420
U.S. Department of Transportation	1	\$2,500,000
U.S. Department of Veterans Affairs	1	\$145,920
U.S. Environmental Protection Agency	1	\$200,000
U.S. Food and Drug Administration	1	\$24,000
U.S. Small Business Administration	4	\$4,897,065
U.S. Department of Treasury	1	\$27,742
TOTAL Federal Sources	333	\$140,814,078

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	34	\$4,573,407
Private/Corporate Business and Industry	77	\$7,407,719
Foundations and Non-Profit Groups	117	\$19,094,213
Other In-State Universities	28	\$2,672,545
Other Out-of-State Universities	19	\$1,607,015
Local Governments	5	\$23,446
Other State Governments	6	\$1,096,775
Foreign Governments & Organizations	3	\$259,855
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Source	289	\$36,734,975

GRAND TOTAL of ALL EXTERNAL FUNDING	622	\$177,549,053
--	------------	----------------------

University of Southern Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Joseph S. Paul, President
Phone number: 601-266-5001

Dr. Kelly Lucas, Vice President for Research
Phone number: 601-266-5116

	Number of	
I. Funding Distribution - College/Division	Projects	Amount
College of Arts and Sciences	154	\$28,762,842
College of Business and Economic Development	1	\$102,277
College of Education and Human Sciences	57	\$10,342,287
College of Nursing and Health Professions	24	\$5,083,873
Office of Vice President for Student Affairs	1	\$108,865
Office of the Provost and Vice President for Academic Affairs	6	\$8,868,641
Office of the Vice President for Finance and Administration	0	\$0
Office of the Vice President for Research	83	\$32,934,414
Total	326	\$86,203,199

II. Funding Sources	Number of	
	Projects	Amount
Federal Funding Source		
Corporation for National & Community Service	2	\$489,115
National Aeronautics and Space Administration	20	\$2,072,354
National Endowment for the Arts	2	\$10,950
National Endowment for the Humanities	1	\$7,500
National Science Foundation	34	\$4,400,093
U.S. Army Eng Research & Development Center	1	\$500,000
U.S. Department of Agriculture	8	\$1,600,754
U.S. Department of Commerce	36	\$17,829,681
U.S. Department of Defense	28	\$13,713,874
U.S. Department of Education	14	\$4,665,711
U.S. Department of Energy	2	\$292,001
U.S. Department of Health and Human Services	59	\$22,135,376
U.S. Department of Homeland Security	1	\$3,000,000
U.S. Department of Housing and Urban Development	2	\$402,165
U.S. Department of Interior	16	\$1,034,470
U.S. Department of Justice	1	\$76,671
U.S. Department of Labor	1	\$67,715
U.S. National Archives and Records Admin	3	\$435,830
U.S. Department of the Treasury	4	\$1,687,187
TOTAL Federal Sources	235	\$74,421,447

University of Southern Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	29	\$9,065,357
Private/Corporate Business and Industry	28	\$1,550,493
Foundations and Non-Profit Groups	27	\$846,602
Other In-State Universities	0	\$0
Other Out-of-State Universities	1	\$5,000
Local Governments	5	\$259,233
Other State Governments	0	\$0
Foreign Governments & Organizations	1	\$55,067
Other [<u>all other sources not listed above</u>]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Source:	91	\$11,781,752
GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	326	\$86,203,199

IHL Executive Office
Annual Report on Research and Sponsored Programs
July 1, 2022 - June 30, 2023

Dr. Alfred Rankins, Jr., Commissioner
Phone number: 601-432-6623

Ms. Kim Gallaspy, Assistant Commissioner for Government Relations
Phone number: 601-432-6493

	Number of	Amount
	Projects	
I. Funding Distribution - College/Division		
Academic and Student Affairs	3	\$1,893,795
Government Relations and Strategic Initiatives	1	\$2,007,851
TOTAL	4	\$3,901,646
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	0	\$0
U.S. Department of Education	1	\$2,007,851
U.S. Department of Health and Human Services	1	\$1,693,795
TOTAL Federal Sources	2	\$3,701,646
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	1	\$150,000
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	0	\$0
Other In-State Universities	0	\$0
Other Out-of-State Universities	0	\$0
Local Governments	0	\$0
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other [all other sources not listed above]	1	\$50,000
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	2	\$200,000
GRAND TOTAL of ALL EXTERNAL FUNDING	4	\$3,901,646

University Research Groups

Mississippi University Research Authority (MURA)

The primary role of the Mississippi University Research Authority (MURA), which was authorized in 1992 through the Mississippi University Research Authority Act, is to promote the public welfare and prosperity of the people of Mississippi and to foster economic development within the state by forging links among the state's educational institutions, businesses and industrial communities, and state government through the development of cooperative ventures of innovative technological significance which will advance education, research, or economic development within the state. These ventures facilitate the commercialization of technologies developed or discovered in campus environments and enhance the economic development of the state through such commercialization. Before the MURA Act was passed, the ethics laws of Mississippi effectively prohibited university faculty from commercializing their research. These laws were established to prohibit public servants from engaging in activities which would be in conflict with their public positions. Although the ethics laws were directed toward public officials, the language in the laws is such that attempts to commercialize technology by faculty members of a university could be construed as a violation of the laws.

MURA membership is composed of the University Research Vice-Presidents from the three comprehensive public universities and from the urban public university, a representative from the Mississippi Development Authority, the president of the Mississippi Resource Development Corporation, the president of the Mississippi Education Research Group (MERG), and the Vice President of the Board of Trustees of State Institutions of Higher Learning. The Commissioner of Higher Education serves as an ex officio member. The Executive Director is selected by the MURA membership.

MURA was established in such a way that there is an extensive review process for any proposal for technology transfer or commercialization. The process is initiated with the Chief Research Officer of the affected university. The proposal is then recommended to the Institutional Executive Officer, who must certify that there is no conflict with the university and that the participation of the faculty member in the commercialization of the technology will not bring harm to the university or to the economic development of the state. The Institutional Executive Officer then recommends that the proposal be reviewed by the MURA Board, which objectively assesses the nature of the proposed commercialization. This process of full disclosure and evaluation first by the university and then by the MURA Board serves to assure that each proposal is of economic interest to the state and is not in conflict with the interests or commitments of the state, the university, or the faculty member(s).

MURA enables faculty members who conceive of new technologies to copyright and/or patent their discoveries, to participate in the development of the technologies, and to realize some commercial benefit. It allows individuals who have developed or discovered new technologies through campus-based research to be a part of new, spin-off businesses in Mississippi, rather than being forced to channel their discoveries through agencies and businesses outside Mississippi, thus allowing the state to realize the economic benefits of the commercialization. The impact from research at the universities, particularly when commercialization occurs, can be far reaching and long-term. The MURA process for facilitating technology transfer and commercialization holds tremendous future possibilities for the state of Mississippi.

Mississippi Research Consortium (MRC)

The Mississippi Research Consortium aims to develop and sustain nationally competitive research programs in the state of Mississippi. Alongside supporting basic and applied research, the consortium has several additional goals: first, to increase public awareness of science, engineering, and mathematics at all educational levels in order to develop a scientifically literate citizenry who can fuel the science and engineering industry in Mississippi with the state's own human resources; second, to establish and maintain a solid scientific infrastructure in our university system by developing equipment and facility resources, collaboration resources, private sector links, and federal laboratory partnerships; and third, to expand the state's economic opportunities through technology and knowledge transfer activities, including greater commercialization, increased technical assistance, and the education of a workforce that can support technology-based industries.

Formed in 1986, the Mississippi Research Consortium (MRC) includes Mississippi's four research universities: Jackson State University, Mississippi State University, the University of Mississippi, and the University of Southern Mississippi. The MRC's Board of Directors is made up of the Chief Research Officers from these institutions. The board serves as the Science and Technology Research Advisors to both the Governor and the Legislature and holds the responsibility of integrating science and technology initiatives with economic development plans in Mississippi. The creation of the Mississippi Universities Research Authority (MURA) Act of 1992 was the product of the Mississippi Research Consortium Technology Transfer Task Force's collaboration with the Board of Trustees of State Institutions of Higher Learning.

Mississippi Education and Research Group (MERG)

The Mississippi Education and Research Group (MERG) was established in 1990 with representation from each of the eight public universities in the state. The primary goals of MERG are to promote collaboration, resource sharing, and communication concerning education and research matters that have an impact on all of the public universities. The result of these efforts is that opportunities which would have been outside the budgetary capabilities of an individual university are made available to the universities through MERG.

The conception of and the need for the establishment of MERG originated in the Mississippi Research Consortium (MRC), comprised of the Chief Research Officers of the four research universities (Jackson State University, Mississippi State University, the University of Mississippi, and the University of Southern Mississippi). The MRC had successfully promoted collaborative research and collaborative funding among themselves. However, MRC realized that Mississippi would best be served if a separate organization was created for the coordination of statewide projects. Additionally, this new organization provided a vehicle for sharing the research and education expertise of the research universities with the four other universities (Alcorn State University, Delta State University, Mississippi University for Women, and Mississippi Valley State University).

MERG was initially involved with two projects, the Mississippi Alliance for Minority Participation (MAMP) and the Rural Science Initiative (RSI). However, many new and important outcomes have evolved from the activities of MERG. The accomplishments and initiatives of MERG may best be reviewed in three broad categories: (1) Educational Efforts, (2) Research Efforts, and (3) Administrative and Legal Consulting.

Educational Efforts: MERG served as the coordinating agent for the development of the Mississippi Alliance for Minority Participation, a major grant from the National Science Foundation which provides financial and academic support to under-represented minorities wishing to pursue careers in science, engineering, and mathematics. MERG members worked from a nuclear concept, developing plans for each of the universities and continuing as the primary coordinating group in the oversight of changes and new directions throughout the program's implementation. MERG has also served in the coordinating role for the successful Rural Science Initiative Grant, which supports public school education in Mississippi, Louisiana, and Arkansas, and has developed a proposal for science-humanities initiatives in undergraduate teaching.

Research Efforts: The MRC developed and received major research funding under the Experiential Program to Stimulate Competitive Research (EPSCoR) programs, designed to advance the research capabilities of universities in selected states. Numerous collaborative research projects have resulted among the research universities. MERG has served as a means of disseminating related research opportunities to the regional universities and of sharing both human resources and research facilities among all eight public universities. MERG has also made contacts with the National Science Foundation about developing proposals to support the use of the Internet as a research resource and for research discussion groups.

Administrative and Legal Consulting: Through MERG, the research universities, which have major grants and development offices, have been able to provide assistance to the regional universities concerning grant proposals, rapidly changing federal regulations, and sources of funding.