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RESEARCH CATALOG

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OCTOBER 2022

PREFACE

FY 2022 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

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University of Mississippi Medical Center

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Mississippi Research Consortium (MRC)
Mississippi Education and Research Group (MERG)

MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

FY 2022 Research Catalog - IHL System Summary

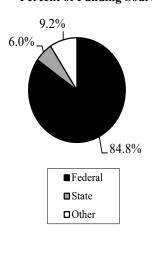
Dr. Alfred Rankins, Commissioner

Period Covered: July 1, 2021 - June 30, 2022

			Private/	Total Funding
University	Federal*	State/Local	Corporate/Other	Awarded
ASU	\$20,356,021	\$1,809,765	\$2,479,705	\$24,645,491
DSU	\$4,163,554	\$524,459	\$1,445,923	\$6,133,936
JSU	\$86,257,738	\$6,662,096	\$8,764,261	\$101,684,095
MSU	\$224,241,395	\$7,493,955	\$19,171,480	\$250,906,830
MUW**	\$145,000	\$5,295,231	\$60,500	\$5,500,731
MVSU	\$20,632,624	\$743,448	\$1,586,821	\$22,962,893
UM/UMMC	\$139,982,045	\$3,606,518	\$27,574,093	\$171,162,656
USM	\$75,080,048	\$14,660,454	\$1,718,988	\$91,459,490
Exec. Office	\$7,738,207	\$413,867	\$0	\$8,152,074
SYSTEM	\$578,596,632	\$41,209,793	\$62,801,771	\$682,608,196

Percent of Funding Sources

	Total Research
University	Projects Supported*
ASU	46
DSU	42
JSU	182
MSU	965
MUW**	11
MVSU	25
UM/UMMC	659
USM	306
Exec. Office	6
SYSTEM	2,242



^{*}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 2018	FY 2019	FY2020*	FY 2021*	FY 2022*
ASU	\$13,024,178	\$15,596,654	\$32,310,993	\$52,691,221	\$24,645,491
DSU	\$4,993,152	\$3,761,373	\$5,589,152	\$15,535,871	\$6,133,936
JSU	\$26,242,939	\$25,837,499	\$54,370,695	\$96,362,070	\$101,684,095
MSU	\$197,478,484	\$210,700,057	\$260,095,082	\$334,019,338	\$250,906,830
MUW**	\$5,109,048	\$5,069,273	\$7,644,973	\$19,645,022	\$5,500,731
MVSU	\$7,400,959	\$8,455,354	\$15,293,881	\$29,592,299	\$22,962,893
UM/UMMC	\$134,735,332	\$133,749,642	\$153,685,366	\$242,380,932	\$171,162,656
USM	\$70,285,398	\$72,672,919	\$75,450,103	\$122,583,637	\$91,459,490
Exec. Office	\$5,091,348	\$2,626,739	\$2,142,455	\$3,862,398	\$8,152,074
SYSTEM	\$464,360,838	\$478,469,510	\$606,582,700	\$916,672,788	\$682,608,196

Percent Change in Total External Funding

	FY 2018	FY 2019	FY 2020	FY 2021
University	to FY 2019	to FY 2020	to FY 2021	to FY 2022
ASU	19.8%	107.2%	63.1%	-53.2%
DSU	-24.7%	48.6%	178.0%	-60.5%
JSU	-1.5%	110.4%	77.2%	5.5%
MSU	6.7%	23.4%	28.4%	-24.9%
MUW**	-0.8%	50.8%	157.0%	-72.0%
MVSU	14.2%	80.9%	93.5%	-22.4%
UM	-0.7%	14.9%	57.7%	-29.4%
USM	3.4%	3.8%	62.5%	-25.4%
Exec. Office	-48.4%	-18.4%	80.3%	111.1%
SYSTEM	3.0%	26.8%	51.1%	-25.5%

Percent Change in Total Projects Supported

Fiscal Year	# of Projects	% Change
FY 2018	2,470	2.6%
FY 2019	2,607	5.5%
FY 2020*	2,020	-22.5%
FY 2021*	2,115	4.7%
FY 2022*	2,242	6.0%

 $[\]hbox{*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

% Change 2020 Total* 2021 Total* 2022 Total* 2020-22 **Funding Source** 2021-22 \$600,000 Agency for Healthcare Research and Quality \$0 \$3,000 -99.5% Appalachian Regional Commission \$190,573 \$0 \$1,971,728 934.6% Central Intelligence Agency \$0 \$0 \$215,000 Corporation for National & Community Service \$1,514,738 \$1,318,590 \$1,339,997 -11.5% 1.6% Corporation for Public Broadcasting 23.4% \$0 \$274,187 \$338,434 Delta Health Alliance \$24,784 \$0 \$0 -100.0% Delta Regional Authority \$250,000 \$0 -100.0% \$0 Federal Aviation Association \$0 \$0 \$121,763 Federal Communication Commission \$1,000,000 \$0 -100.0% \$0 Health Resource and Services Administration \$10,119,404 \$14,527,496 \$23,053,011 127.8% 58.7% HEERF/CARES \$0 \$0 \$52,997,837 -100.0% Hexagon \$44,235 \$0 \$0 Institute of Museum and Library Sciences \$0 \$23,994 \$50,000 108.4% IREX-Global UG Exchange Program \$0 \$29,001 \$0 \$200,000 \$220,000 Library of Congress \$188,281 -5.9% -14.4% Military Suicide Research Consortium \$0 \$14,825 \$0 -100.0% Mississippi Band of Choctaw Indians \$0 \$5,000 \$0 MS Delta National Heritage Ares \$0 \$15,000 -100.0% \$0 --National Aeronautics and Space Administration \$3,746,195 \$9,579,306 \$5,519,558 47.3% -42.4% National Endowment for the Arts \$11,000 \$8,100 \$25,000 127.3% 208.6% National Endowment for the Humanities \$401,657 \$452,863 \$70,400 -82.5% -84.5% National Geospatial Agency \$357,500 \$368,614 \$270,020 -24.5% -26.7% National Historical Publications and Records Commission -100.0% \$16,859 \$0 \$0 National Institutes of Health* \$65,486,833 \$75,445,117 \$72,971,924 11.4% -3.3% National Museum of African American History and Culture \$128,250 \$0 \$0 National Park Service \$864,926 \$832,411 \$400,000 -53.8% -51.9% National Science Foundation \$26,875,017 \$25,769,262 \$33,496,480 24.6% 30.0% National Security Agency \$0 \$89,988 \$500,319 456.0% Nuclear Regulatory Commission \$0 \$54,000 \$0 -100.0% Tennessee Valley Authority \$70,000 \$583,000 732.9% 348.5% \$130,000 U.S. Agency for International Development \$5,761,803 \$2,630,348 \$1,374,006 -76.2% -47.8% U.S. Air Force \$0 \$308,000 \$320,964 4.2% U.S. Army \$22,000 \$0 \$0 -100.0% \$0 -100.0% U.S. Army Engineer Research & Development Center \$2,340,000 \$0 U.S. Department of Agriculture \$80,862,571 \$82,297,433 \$80,624,509 -0.3%-2.0% U.S. Department of Commerce \$50,093,767 \$32,290,133 -35.5% -4.1% \$33,671,025 U.S. Department of Defense \$67,450,982 \$54,737,185 -18.8% -9.1% \$60,246,013 U.S. Department of Education \$134,624,390 \$398,401,876 \$83,030,336 -38.3% -79.2% U.S. Department of Educational and Cultural Affairs \$34,419 \$0 \$0 -100.0% \$14,208,395 29.5% 72.3% U.S. Department of Energy \$10,973,647 \$8,247,533 U.S. Department of Health and Human Services \$31,143,518 \$39,909,340 \$59,789,135 92.0% 49.8% U.S. Department of Homeland Security \$802,396 \$6,333,655 \$11,179,422 1293.3% 76.5% U.S. Department of Housing and Urban Development \$706,898 143.6% \$290,189 \$0 487.9% U.S. Department of Interior \$5,971,795 \$1,443,291 \$8,485,573 42.1% U.S. Department of Justice \$192,634 \$1,524,991 \$3,340,016 1633.9% 119.0% U.S. Department of Labor \$6,444,086 \$5,960,713 \$9,544,675 48.1% 60.1% U.S. Department of State \$0 \$108,849 \$0 U.S. Department of the Treasury \$7,595,064 \$8,947,562 \$7,715,857 1.6% -13.8% U.S. Department of Transportation \$6,117,379 \$10,753,397 \$10,142,654 65.8% -5.7% U.S. Department of Veterans Affairs \$91,260 \$127,610 \$20,466 -77.6% -84.0% U.S. Environmental Protection Agency \$5,940,068 \$2,206,945 \$2,919,315 -50.9% 32.3% U.S. Fish and Wildlife Service \$0 \$126,605 \$0 -100.0% U.S. Geological Survey \$687,914 \$350,042 \$174,061 -74.7% -50.3% U.S. National Archives and Records Administration \$340,424 \$100,000 \$108,925 -68.0% 8.9% \$75,000 \$0 -100.0% U.S. Navy \$0 U.S. Securities and Exchange Commission \$272,122 \$210,098 -22.8% \$0 U.S. Small Business Administration \$4,541,223 \$2,783,903 -27.6% 18.1% \$3,287,157 8.5% \$533,320,250 -27.4% Total \$796,616,157 \$578,596,632

^{*}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 2022*

	ASU	DSU	nsr	MSU	MUW	MVSU	UM	USM	EO	Grand Total
U.S. Department of Education	7,495,275	2,715,374	25,840,075	16,898,985		6,099,080	14,983,113	3,475,950	5,522,484	83,030,336
U.S. Department of Agriculture	11,939,512			58,709,690			8,714,422	1,260,885		80,624,509
National Institutes of Health*		170,899	5,007,167	8,205,684	115,000		59,473,174			72,971,924
U.S. Department of Health and Human Services*			9,999,938	28,926,997			9,582,716	9,636,757	1,642,727	59,789,135
U.S. Department of Defense			1,508,136	25,334,882			10,784,670	17,109,497		54,737,185
HEERF/CARES			36,919,804			14,456,935	0	1,621,098		52,997,837
National Science Foundation		36,353	6,316,124	18,153,719		76,609	5,252,043	3,661,632		33,496,480
U.S. Department of Commerce				13,735,997			624,924	17,929,212		32,290,133
Health Resource and Services Association				1,432,951			21,620,060			23,053,011
U.S. Department of Energy	47,800			13,313,252			515,344	331,999		14,208,395
U.S. Department of Homeland Security				4,103,872			277,890	6,797,660		11,179,422
U.S. Department of Transportation				9,764,265			378,389			10,142,654
U.S. Department of Labor				9,344,675				200,000		9,544,675
U.S. Department of Interior	500,000			5,743,140			149,500	2,092,933		8,485,573
U.S. Department of the Treasury							89,340	7,545,439		7,634,779
National Aeronautics and Space Administration		15,000	175,109	1,950,761	30,000		1,387,069	1,961,619		5,519,558
U.S. Department of Justice				418,219			2,850,640	71,157		3,340,016
U.S. Small Business Administration			150,000	1,237,568			1,789,589	110,000		3,287,157
U.S. Environmental Protection Agency				1,823,214			256'666	96,144		2,919,315
Appalachian Regional Commission				1,971,728						1,971,728
U.S. Agency of International Development				1,374,006			0			1,374,006
Corporation for National & Community Service		84,180		120,194			200,384	362,243	572,996	1,339,997
U.S. Department of Housing and Urban Development								706,898		706,898
Tennessee Valley Authority				583,000						583,000
National Security Agency				500,319			0			500,319
U.S. National Park Service		400,000								400,000
Corporation for Public Broadcasting	338,434									338,434
U.S. Air Force		320,964								320,964
National Geospatial Agency (NGA)		270,020								270,020
Central Intelligence Agency				215,000						215,000
U.S. Securities and Exchange Commission							210,098			210,098
U.S. Geological Survey				174,061						174,061
National Museum of African American History and Culture			128,250							128,250
Federal Aviation Association via MS State University		121,763								121,763
U.S. National Archives and Records Admin								108,925		108,925
U.S. Department of State			108,849							108,849
National Library of Congress			104,286							104,286
Library of Congress							83,995			83,995
U.S. Department of Treasury				81,078						81,078
National Endowment for the Humanities	35,000			23,672			11,728			70,400
Institute of Museum and Library Sciences				50,000			0			50,000
IREX-Global UG Exchange Program		29,001								29,001
National Endowment for the Arts				25,000						25,000
U.S. Department of Veterans Affairs				20,466						20,466
Mississippi Band of Choctaw Indians				5,000						5,000
Agency for Healthcare Research and Quality - Covid Funding						- 1	- 1		- 1	3,000
Grand Total	20,356,021	4,163,554	86,257,738	224,241,395	145,000	20,632,624	139,982,045	75,080,048	7,738,207	578,596,632

^{*}Includes federal HEERE/CARES funds disbursed from multiple agencies.

FY 2022 Research and Sponsored Programs
System Trend of State, Private, Corporate, & Other External Funding

				2020-22	2021-22
Funding Source	2020 Total	2021 Total	2022 Total	% Change	% Change
State Funding [other than general appropriation]	\$4,852,470	\$6,563,494	\$4,883,733	0.6%	-25.6%
State of Mississippi Agencies	\$18,419,466	\$50,616,792	\$32,546,979	76.7%	-35.7%
Private/Corporate Business and Industry	\$19,903,528	\$30,810,110	\$21,247,336	6.8%	-31.0%
Foundations and Non-Profit Groups*	\$24,776,967	\$25,796,963	\$33,272,824	34.3%	29.0%
Other In-State Universities	\$1,626,229	\$2,010,792	\$2,335,558	43.6%	16.2%
Other Out-of-State Universities	\$1,826,083	\$2,998,589	\$4,211,673	130.6%	40.5%
Local Governments	\$921,149	\$837,417	\$1,443,523	56.7%	72.4%
Other State Governments	\$395,971	\$156,977	\$2,902,340	633.0%	1748.9%
Foreign Governments & Organizations	\$408,587	\$255,497	\$927,562	127.0%	263.0%
Other [all other sources not listed above]	\$132,000	\$10,000	\$240,036	81.8%	2300.4%
Total	\$73,262,450	\$120,056,631	\$104,011,564	42.0%	-13.4%

				2020-22	2021-22
Percent of Total	2020 Total	2021 Total	2022 Total	Change	Change
State Funding [other than general appropriation]	6.6%	5.5%	4.7%	-1.9%	-0.8%
State of Mississippi Agencies	25.1%	42.2%	31.3%	6.1%	-10.9%
Private/Corporate Business and Industry	27.2%	25.7%	20.4%	-6.7%	-5.2%
Foundations and Non-Profit Groups*	33.8%	21.5%	32.0%	-1.8%	10.5%
Other In-State Universities	2.2%	1.7%	2.2%	0.0%	0.6%
Other Out-of-State Universities	2.5%	2.5%	4.0%	1.6%	1.6%
Local Governments	1.3%	0.7%	1.4%	0.1%	0.7%
Other State Governments	0.5%	0.1%	2.8%	2.2%	2.7%
Foreign Governments & Organizations	0.6%	0.2%	0.9%	0.3%	0.7%
Other [all other sources not listed above]	0.2%	0.0%	0.2%	0.1%	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, 2021 - June 30, 2022

Dr. Felecia M. Nave Phone number: 601-877-6111

Dr. Keith McGee, Chief Research Officer Phone number: 601-877-6198

_		Number of	
I.	Funding Distribution - College/Division	Projects	Amount
	Office of Community Development	9	\$6,187,738
	School of Agriculture, Research, Extension, and Applied Sciences	21	\$10,072,665
	School of Arts and Sciences	8	\$443,286
	School of Business	0	\$0
	School of Education and Psychology	3	\$794,077
	School of General College of Excellence	2	\$758,990
	School of Graduate Studies	0	\$0
	School of Nursing	2	\$207,200
	Title III Strengthening Institutional Programs	1	\$6,181,535
	TOTAL	46	\$24,645,491
II.	Funding Sources		
	FEDERAL External Funding by Agency/Department		
	National Endowment for the Humanities	1	\$35,000
	U.S. Department of Agriculture	16	\$11,939,512
	U.S. Department of Education	5	\$7,495,275
	U.S. Department of Energy	1	\$47,800
	U.S. Department of Interior	1	\$500,000
	Corporation for Public Broadcasting	3	\$338,434
	HEERF	0	\$0
	TOTAL Federal Sources	27	\$20,356,021
	STATE, PRIVATE, CORPORATE, OTHER External Funding by		
	State Funding [other than general appropriation]	0	\$0
	State of Mississippi Agencies	3	\$1,594,765
	Private/Corporate Business and Industry	0	\$0
	Foundations and Non-Profit Groups	5	\$994,765
	Other In-State Universities	2	\$215,000
	Other Out-of-State Universities	9	\$1,484,940
	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 Source		\$4,289,470
	GRAND TOTAL of ALL EXTERNAL FUNDING	46	\$24,645,491
	STATE TO THE OTTER ENTIRE TOTAL		Ψ2 1,0 12, 17 I

Delta State University Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

Mr. Butch Caston, Interim President Phone number: 662-846-4000

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

		Number of	
I.	Funding Distribution - College/Division	Projects	Amount
	Bologna Performing Arts Center	6	\$29,150
	Center for Community and Economic Development	5	\$3,117,308
	College of Arts and Sciences	9	\$505,672
	College of Business and Aviation	2	\$442,727
	College of Education and Human Sciences	3	\$590,809
	Delta Center for Culture and Learning	2	\$500,000
	Delta Music Institute	2	\$33,750
	Graduate and Continuing Studies	1	\$140,000
	Office of Diversity, Equity, and Inclusion	3	\$7,500
	Office of Student Affairs	2	\$32,500
	Robert E. Smith School of Nursing	3	\$208,400
	Student Success Center	4	\$526,120
	TOTAL	42	\$6,133,936
тт	F 1' C		
11.	Funding Sources:		
	FEDERAL External Funding by Agency/Department	1	¢0/ 100
	Corporation for National & Community Service	1	\$84,180
	IREX-Gobal UG Exchange Program	1	\$29,001
	National Aeronautics and Space Administration	1	\$15,000
	National Institutes of Health	2	\$170,899
	National Science Foundation	1	\$36,353
	U.S. Department of Education	3	\$2,715,374
	National Park Service	1	\$400,000
	National Geospatial Agency	2	\$270,020
	U.S. Air Force	1	\$320,964
	Federal Aviation Association via MS State University	1	\$121,763
	TOTAL Federal Sources	14	\$4,163,554
	STATE, PRIVATE, CORPORATE, OTHER External Funding by		
	State of Mississippi Agencies	8	\$524,459
	Foundations and Non-Profit Groups	20	\$1,445,923
	TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	28	\$1,970,382
	GRAND TOTAL of ALL EXTERNAL FUNDING	42	\$6.122.02 <i>6</i>
	OKAND TOTAL OF ALL EXTERNAL FUNDING	42	\$6,133,936

Jackson State University Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

Mr. Thomas K. Hudson, President Phone number: 601-979-2323

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

I. Funding Distribution - College/Division Office of the President College of Business College of Education and Human Development College of Health Sciences College of Liberal Arts College of Engineering, Science and Technology Department of Public Safety Division of Academic Affairs Division of Institutional Advancement Office of Research and Economic Development Student Affairs	Number of Projects 36 3 10 14 16 75 0 16 4 8 0	Amount \$61,190,358 \$135,297 \$2,506,494 \$12,749,286 \$2,426,102 \$15,270,468 \$0 \$5,767,044 \$516,235 \$1,122,811 \$0
TOTAL	182	\$101,684,095
II. Funding Sources FEDERAL External Funding by Agency/Department Health Resource and Services Association HEERF/CARES National Library of Congress National Aeronautics and Space Administration National Museum of African American History and Culture National Institutes of Health National Science Foundation U.S. Department of Defense U.S. Department of Education U.S. Department of Health and Human Services U.S. Department of State U.S. Small Business Administration TOTAL Federal Sources	0 1 1 2 1 14 18 6 42 1 1 1 1 88	\$0 \$36,919,804 \$104,286 \$175,109 \$128,250 \$5,007,167 \$6,316,124 \$1,508,136 \$25,840,075 \$9,999,938 \$108,849 \$150,000 \$86,257,738
STATE, PRIVATE, CORPORATE, OTHER External Funding by State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other State Governments Other In-State Universities Other Out-of-State Universities Local Governments Foreign Governments & Organizations Other [all other sources not listed above] TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	0 17 4 31 1 18 22 1 0 0	\$0 \$4,025,075 \$131,620 \$3,678,308 \$2,753,701 \$1,920,021 \$2,200,632 \$717,000 \$0 \$0 \$15,426,357
GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	182	\$101,684,095

Mississippi State University Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

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

		Number	
I.	Funding Distribution - College/Division	of Projects	Amount
	Bagley College of Engineering	120	\$47,036,052
	College of Architecture, Art, and Design	14	\$555,125
	College of Arts and Sciences	100	\$12,489,680
	College of Business	6	\$1,375,568
	College of Education	34	\$4,789,263
	College of Forest Resources/Forest Wildlife Research Center	109	\$15,666,412
	College of Veterinary Medicine	32	\$4,871,252
	Division of Student Affairs	10	\$1,486,973
	Mitchell Memorial Library	2	\$6,487
	MS Agricultural and Forestry Experiment Station (MAFES)/CALS	250	\$32,972,406
	MS State University Extension Service (MSU ES)	142	\$47,232,323
	University Branch Campus (Meridian)	3	\$1,087,568
	University Centers and Institutes	136	\$72,731,684
	Vice President for Campus Services	1	\$2,742,395
	Vice President for Research and Economic Development	6	\$5,863,642
	TOTAL	965	\$250,906,830
II.	Funding Sources		
	FEDERAL External Funding by Agency/Department		
	Appalachian Regional Commission	3	\$1,971,728
	Central Intelligency Agency	1	\$215,000
	Corporation for National & Community Service	2	\$120,194
	Health Resource and Services Association	2	\$1,432,951
	HEERF/CARES	0	\$0
	Institute of Museum and Library Sciences	1	\$50,000
	Mississippi Band of Choctaw Indians	1	\$5,000
	National Aeronautics and Space Administration	24	\$1,950,761
	National Endowment for the Arts	2	\$25,000
	National Endowment for the Humanities	6	\$23,672
	National Institutes of Health	35	\$8,205,684
	National Science Foundation	51	\$18,153,719
	National Security Agency	1	\$500,319
	Tennessee Valley Authority	2	\$583,000
	U.S. Agency of International Development	5	\$1,374,006
	U.S. Department of Agriculture	199	\$58,709,690
	U.S. Department of Commerce	39	\$13,735,997
	U.S. Department of Defense	40	\$25,334,882
	U.S. Department of Education	27	\$16,898,985
	U.S. Department of Energy	31	\$13,313,252
	U.S. Department of Health and Human Services	32	\$28,926,997
	U.S. Department of Homeland Security	2	\$4,103,872

Mississippi State University Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

Funding Sources (Continued)	Number	
FEDERAL External Funding by Agency/Department	of Projects	Amount
U.S. Department of Interior	41	\$5,743,140
U.S. Department of Justice	7	\$418,219
U.S. Department of Labor	7	\$9,344,675
U.S. Department of Transportation	12	\$9,764,265
U.S. Department of Treasury	1	\$81,078
U.S. Department of Veterans Affairs	1	\$20,466
U.S. Environmental Protection Agency	13	\$1,823,214
U.S. Geological Survey	2	\$174,061
U.S. Small Business Administration	4	\$1,237,568
TOTAL Federal Sources	594	\$224,241,395
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Pusiness and Industry	0 41	\$0 \$7,314,428 \$5,044,655
Private/Corporate Business and Industry	99	\$5,044,655
Foundations and Non-Profit Groups	200	\$13,456,846
Other In-State Universities	0	\$0
Other Out-of-State Universities	5	\$42,189
Local Governments	13	\$179,527
Other State Governments	5	\$109,439
Foreign Governments & Organizations	8	\$518,351
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER	371	\$26,665,435
GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	965	\$250,906,830

Mississippi University for Women Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

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

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

	Number of	
Funding Distribution - College/Division	Projects	Amount
Academic Support*	2	\$4,886,733
Center for Outreach and Innovation	1	\$411,498
College of Arts, Sciences, & Education	8	\$202,500
TOTAL	11	\$5,500,731
*Includes total for Mississippi School for Math and Science		
I. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	2	\$30,000
National Institutes of Health	2	\$115,000
TOTAL Federal Sources	4	\$145,000
CTATE PRIVATE CORPORATE OTHER EAST 15 1' 1		
STATE, PRIVATE, CORPORATE, OTHER External Funding by	1	¢4 002 722
State Funding [other than general appropriation]	1	\$4,883,733
State Funding [other than general appropriation] State of Mississippi Agencies	1	\$411,498
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry	1 0	\$411,498 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups	1 0 5	\$411,498 \$0 \$60,500
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities	1 0 5 0	\$411,498 \$0 \$60,500 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities Other Out-of-State Universities	1 0 5 0	\$411,498 \$0 \$60,500 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities Other Out-of-State Universities Local Governments	1 0 5 0 0	\$411,498 \$0 \$60,500 \$0 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments	1 0 5 0 0 0	\$411,498 \$0 \$60,500 \$0 \$0 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments Foreign Governments & Organizations	1 0 5 0 0	\$411,498 \$0 \$60,500 \$0 \$0 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments Foreign Governments & Organizations Other [all other sources not listed above]	1 0 5 0 0 0	\$411,498 \$0 \$60,500 \$0
State Funding [other than general appropriation] State of Mississippi Agencies Private/Corporate Business and Industry Foundations and Non-Profit Groups Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments Foreign Governments & Organizations	1 0 5 0 0 0 0	\$411,498 \$0 \$60,500 \$0 \$0 \$0

Mississippi Valley State University Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

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

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

		Number of	
I. Funding Distribution - College/Division	on	Projects	Amount
Athletics Administration		1	\$17,500
Department of English and Foreign L		1	\$14,400
Department of Mathematics, Comput	er and Information Sciences	3	\$154,462
Department of Natural Sciences and l	Environmental Health	3	\$612,367
Department of Social Sciences		1	\$240,036
Department of Social Work		1	\$47,690
Division of Academic Affairs		4	\$1,282,385
Division of Enrollment Management	and Student Affairs	2	\$380,567
Office of Business and Finance		1	\$541,411
Office of the President		3	\$14,489,435
Title III Strengthening Institutions Pro	ograms	2	\$3,795,363
University College	5	3	\$1,387,277
TOTAL		25	\$22,962,893
FEDERAL External Funding by Ager HEERF/CARES	ncy/Department	1	\$14,456,935 \$76,609
National Science Foundation		1	\$76,609
U.S. Department of Education		7	\$6,099,080
TOTAL Federal Sources		9	\$20,632,624
STATE, PRIVATE, CORPORATE, C	OTHER External Funding by		
State Funding [other than general app	ropriation]	0	\$0
State of Mississippi Agencies	-	2	\$546,411
Private/Corporate Business and Indus	try	0	\$0
Foundations and Non-Profit Groups	Ž	8	\$1,346,785
Other In-State Universities		5	\$197,037
Other Out-of-State Universities		0	\$0
Local Governments		0	\$0
Other State Governments		0	\$0
Foreign Governments & Organization		0	\$0
Other [all other sources not listed al		1	\$240,036
TOTAL STATE, PRIVATE, CORP	ORATE, and OTHER Sources	16	\$2,330,269
GRAND TOTAL of ALL EXTERN.	AL FUNDING	25	\$22,962,893

University of Mississippi Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

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	72	\$7,263,124
	Division of Outreach and Continuing Education	1	\$27,267
	Graduate School	2	\$374,981
	Office of the Provost	1	\$100,000
	Office of the Vice Chancellor for Administration and Finance	1	\$12,375
	Office of the Vice Chancellor for Research and Sponsored Programs	42	\$7,123,838
	Office of Vice Chancellor for Student Affairs	2	\$12,700
	School of Accountancy	1	\$210,098
	School of Applied Sciences	8	\$6,991,837
	School of Business Administration	9	\$1,902,709
	School of Education	23	\$14,112,519
	School of Engineering	28	\$8,414,135
	School of Journalism and New Media	1	\$170,000
	School of Law	9	\$889,327
	School of Pharmacy	54	\$16,914,783
	Total Oxford	254	\$64,519,693
В.	Medical Center		
	Academic Affairs	1	\$1,500
	Dentistry	14	\$1,438,663
	Health Related Professions	2	\$6,000
	Hospital	1	\$213,891
	Medicine	340	\$85,861,392
	Medicine - Covid Funding	8	\$2,145,033
	Nursing	10	\$1,088,616
	Population Health	20	\$2,820,348
	Population Health - Covid Funding	3	\$2,061,712
	Research and Sponosred Programs - Covid Funding	1	\$87,000
	UP-Telehealth Services	4	\$10,918,608
	Office of Diversity and Inclusion	1	\$200
	Total Medical Center	405	\$106,642,964
	TOTAL (UM + UMMC)	659	\$171,162,657

University of Mississippi Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

Foundations and Non-Profit Groups Foundations and Non-Profit Groups - Covid Funding Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments Foreign Governments & Organizations Other [all other sources not listed above] TOTAL STATE, PRIVATE, CORPORATE, and OTHER Source GRAND TOTAL of ALL EXTERNAL FUNDING	5 8 2 5 0	\$460,42 \$92,08 \$39,20 \$264,88 \$31,180,61
Foundations and Non-Profit Groups - Covid Funding Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments Foreign Governments & Organizations Other [all other sources not listed above]	5 8 2 5 0	\$92,08 \$39,20 \$264,88
Foundations and Non-Profit Groups - Covid Funding Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments Foreign Governments & Organizations	5 8 2 5	\$92,08 \$39,20 \$264,88
Foundations and Non-Profit Groups - Covid Funding Other In-State Universities Other Out-of-State Universities Local Governments Other State Governments	5 8 2	\$92,08 \$39,20
Foundations and Non-Profit Groups - Covid Funding Other In-State Universities Other Out-of-State Universities Local Governments	5 8	\$92,08
Foundations and Non-Profit Groups - Covid Funding Other In-State Universities Other Out-of-State Universities	5	
Foundations and Non-Profit Groups - Covid Funding Other In-State Universities		0160 10
Foundations and Non-Profit Groups - Covid Funding	1	\$3,50
	1 1	\$87,00
	101	\$11,055,73
Private/Corporate Business and Industry	80	\$15,666,8
State of Mississippi Agencies	19 80	\$3,510,9
State Funding [other than general appropriation]	0	\$2.510.0
STATE, PRIVATE, CORPORATE, OTHER External Funding by	0	
10 TAL Teachar Sources	737	\$139,962,0
TOTAL Federal Sources	437	\$139,982,04
Agency for Healthcare Research and Quality - Covid Funding	3 1	\$1,789,58 \$3,00
U.S. Small Business Administration	5	
U.S. Geological Survey U.S. Securities and Exchange Commission	0 1	\$210,09
U.S. Environmental Protection Agency	1	\$999,95
U.S. Department of the Treasury	1	\$89,34
U.S. Department of Transportation	1	\$378,38
U.S. Department of Justice	1	\$2,850,64
U.S. Department of Interior	4	\$149,50
U.S. Department of Homeland Security	1	\$277,89
U.S. Department of Health and Human Services - Covid Funding	5	\$1,847,70
U.S. Department of Health and Human Services	24	\$7,735,01
U.S. Department of Energy	4	\$515,34
U.S. Department of Education	12	\$14,983,11
U.S. Department of Defense	38	\$10,784,67
U.S. Department of Commerce	4	\$624,92
U.S. Department of Agriculture	16	\$8,714,42
U.S. Agency of International Development	0	\$0.71446
National Security Agency	0	9
National Science Foundation	32	\$5,252,04
National Institutes of Health - Covid Funding	7	\$2,397,23
National Institutes of Health	230	\$57,075,94
National Endowment for the Humanities	3	\$11,72
National Aeronautics and Space Administration	5	\$1,387,06
•	1	\$83,99
Library of Congress	38	\$21,620,06
Health Resource and Services Association Library of Congress	2	\$200,38
Corporation for National & Community Service Health Resource and Services Association Library of Congress		

University of Southern Mississippi Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

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	134	\$31,844,265
	College of Business and Economic Development	1	\$15,937
	College of Education and Human Sciences	37	\$8,250,039
	College of Nursing and Health Professions	19	\$4,248,601
	Office of Student Affairs	3	\$358,403
	Office of the Provost and Vice President for Academic Affairs	5	\$639,023
	Office of the Vice President for Finance and Administration	1	\$1,621,098
	Office of the Vice President for Research	106	\$44,482,124
	Total	306	\$91,459,490

II. Funding Sources

	Number of	
Federal Funding Source	Projects	Amount
Corporation for National & Community Service	2	\$362,243
HEERF/CARES	1	\$1,621,098
National Aeronautics and Space Administration	37	\$1,961,619
National Science Foundation	27	\$3,661,632
U.S. Department of Agriculture	5	\$1,260,885
U.S. Department of Commerce	49	\$17,929,212
U.S. Department of Defense	29	\$17,109,497
U.S. Department of Education	12	\$3,475,950
U.S. Department of Energy	2	\$331,999
U.S. Department of Health and Human Services	34	\$9,636,757
U.S. Department of Homeland Security	1	\$6,797,660
U.S. Department of Housing and Urban Development	2	\$706,898
U.S. Department of Interior	20	\$2,092,933
U.S. Department of Justice	1	\$71,157
U.S. Department of Labor	1	\$200,000
U.S. Environmental Protection Agency	3	\$96,144
U.S. National Archives and Records Admin	1	\$108,925
U.S. Small Business Administration	1	\$110,000
U.S. Department of the Treasury	5	\$7,545,439
TOTAL Federal Sources	233	\$75,080,048

University of Southern Mississippi Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	27	\$14,469,409
Private/Corporate Business and Industry	10	\$404,207
Foundations and Non-Profit Groups	25	\$1,146,966
Other In-State Universities	0	\$0
Other Out-of-State Universities	2	\$23,486
Local Governments	8	\$191,045
Other State Governments	0	\$0
Foreign Governments & Organizations	1	\$144,329
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	73	\$16,379,442
GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING	306	\$91,459,490

IHL Executive Office Annual Report on Research and Sponsored Programs July 1, 2021 - June 30, 2022

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	
Funding Distribution - College/Division	Projects	Amount
Academic and Student Affairs	4	\$2,629,590
Government Relations and Strategic Initiatives	2	\$5,522,484
TOTAL	6	\$8,152,074
Funding Sources		
FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	1	\$572,996
U.S. Department of Education	2	\$5,522,484
U.S. Department of Health and Human Services	1	\$1,642,727
TOTAL Federal Sources	4	\$7,738,207
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	1	\$263,867
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	2	\$413,867
GRAND TOTAL of ALL EXTERNAL FUNDING	6	\$8,152,074

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.

<u>Educational Efforts</u>: 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.