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MISSISSIPPI
PUBLIC UNIVERSITIES
ADVANCING OUR STATE TOGETHER

RESEARCH CATALOG



OCTOBER 2019

PREFACE

FY 2019 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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MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

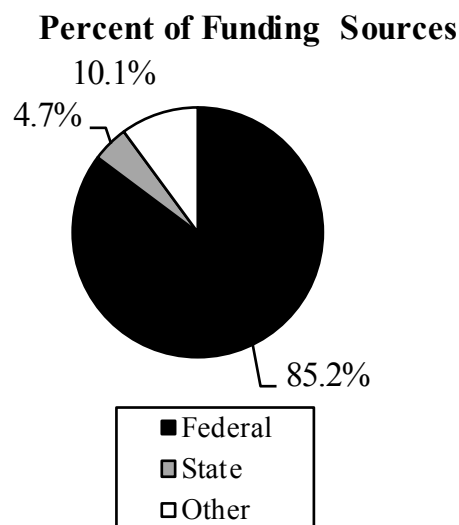
FY 2019 Research Catalog - IHL System Summary

Dr. Alfred Rankins, Commissioner

Period Covered: July 1, 2018 - June 30, 2019

University	Federal	State/ Local	Private/ Corporate/Other	Total Funding Awarded
ASU	\$14,585,471	\$360,854	\$650,329	\$15,596,654
DSU	\$1,741,181	\$461,787	\$1,558,405	\$3,761,373
JSU	\$20,821,107	\$2,310,673	\$2,705,719	\$25,837,499
MSU	\$188,302,806	\$4,947,112	\$17,450,139	\$210,700,057
MUW*	\$416,628	\$4,502,290	\$150,355	\$5,069,273
MVSU	\$7,199,541	\$1,017,240	\$238,573	\$8,455,354
UM/UMMC	\$110,528,596	\$3,569,491	\$19,651,555	\$133,749,642
USM	\$62,326,737	\$4,558,762	\$5,787,420	\$72,672,919
Exec. Office	\$1,915,796	\$710,943	\$0	\$2,626,739
SYSTEM	\$407,837,863	\$22,439,152	\$48,192,495	\$478,469,510

University	Total Research Projects Supported
ASU	47
DSU	52
JSU	104
MSU	1,422
MUW*	6
MVSU	23
UM/UMMC	603
USM	346
Exec. Office	4
SYSTEM	2,607



* 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 2015	FY 2016	FY 2017	FY 2018	FY 2019
ASU	\$13,422,941	\$16,264,478	\$14,700,229	\$13,024,178	\$15,596,654
DSU	\$6,820,389	\$4,999,784	\$5,255,958	\$4,993,152	\$3,761,373
JSU	\$29,466,629	\$33,575,356	\$41,399,589	\$26,242,939	\$25,837,499
MSU	\$167,543,258	\$178,968,746	\$144,187,317	\$197,478,484	\$210,700,057
MUW*	\$5,716,500	\$4,859,180	\$5,417,405	\$5,109,048	\$5,069,273
MVSU	\$6,550,449	\$9,170,959	\$7,581,186	\$7,400,959	\$8,455,354
UM	\$114,139,830	\$114,577,193	\$123,290,112	\$134,735,332	\$133,749,642
USM	\$72,976,047	\$59,597,668	\$73,979,487	\$70,285,398	\$72,672,919
Exec. Office	\$3,129,696	\$1,757,329	\$4,931,728	\$5,091,348	\$2,626,739
SYSTEM	\$419,765,739	\$423,770,693	\$420,743,011	\$464,360,838	\$478,469,510

Percent Change in Total External Funding

University	FY 2015 to FY 2016	FY 2016 to FY 2017	FY 2017 to FY 2018	FY 2018 to FY 2019
ASU	21.2%	-9.6%	-11.4%	19.8%
DSU	-26.7%	5.1%	-5.0%	-24.7%
JSU	13.9%	23.3%	-36.6%	-1.5%
MSU	6.8%	-19.4%	37.0%	6.7%
MUW*	-15.0%	11.5%	-5.7%	-0.8%
MVSU	40.0%	-17.3%	-2.4%	14.2%
UM	0.4%	7.6%	9.3%	-0.7%
USM	-18.3%	24.1%	-5.0%	3.4%
Exec. Office	-43.8%	180.6%	3.2%	-48.4%
SYSTEM	1.0%	-0.7%	10.4%	3.0%

Percent Change in Total Projects Supported

Fiscal Year	# of Projects	% Change
FY 2015	2,461	-4.6%
FY 2016	2,449	-0.5%
FY 2017	2,407	-1.7%
FY 2018	2,470	2.6%
FY 2019	2,607	5.5%

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

**FY 2019 Research and Sponsored Programs
System Trend of Federal External Funding**

Funding Source	2017 Total	2018 Total	2019 Total	% Change	
				2017-19	2018-19
Appalachian Regional Commission	\$419,016	\$0	\$56,250	-100.0%	-86.6%
Bureau of Justice Assistance	\$0	\$0	\$273,213	--	--
Corporation for National & Community Service	\$2,409,216	\$2,134,795	\$1,688,573	-11.4%	-29.9%
Defense Advanced Research Projects Agency	\$0	\$0	\$991,667	--	--
Engineering Research & Development Center	\$0	\$0	\$8,330,616	--	--
Gulf Coast Ecosystem Restoration Council	\$0	\$0	\$298,761	--	--
Health Resource and Services Administration	\$4,169,251	\$9,478,558	\$9,800,930	127.3%	135.1%
Institute of Museum and Library Sciences	\$0	\$534,307	\$0	--	--
Library of Congress	\$398,596	\$0	\$200,000	-100.0%	-49.8%
Mississippi Band of Choctaw Indians	\$0	\$8,759	\$0	--	--
National Aeronautics and Space Administration	\$2,554,129	\$5,848,190	\$3,216,447	129.0%	25.9%
National Endowment for the Arts	\$30,734	\$56,400	\$33,200	83.5%	8.0%
National Endowment for the Humanities	\$723,505	\$215,789	\$251,773	-70.2%	-65.2%
National Geospatial Agency	\$0	\$0	\$357,500	--	--
National Highway Traffic Safety Administration	\$199,264	\$0	\$215,735	-100.0%	8.3%
National Institutes of Health	\$53,390,048	\$48,438,939	\$62,480,560	-9.3%	17.0%
National Marine Fisheries Service	\$0	\$0	\$284,771	--	--
National Oceanic and Atmospheric Administration	\$0	\$0	\$905,058	--	--
National Park Service	\$0	\$300,000	\$362,500	--	--
National Science Foundation	\$29,430,669	\$20,900,278	\$30,285,836	-29.0%	2.9%
National Security Agency	\$397,661	\$460,814	\$426,796	15.9%	7.3%
Naval Research Laboratory	\$231,281	\$99,346	\$0	-57.0%	-100.0%
Nuclear Regulatory Commission	\$570,163	\$0	\$0	-100.0%	-100.0%
Naval Meteorology & Oceanography Command	\$0	\$0	\$109,014	--	--
Office of Naval Research	\$0	\$1,370,000	\$2,685,467	--	--
Tennessee Valley Authority	\$0	\$31,532	\$662,920	--	--
United Sorghum Checkoff Program	\$0	\$21,000	\$0	--	--
U.S. Agency for International Development	\$360,519	\$293,905	\$3,879,961	-18.5%	976.2%
U.S. Air Force	\$0	\$0	\$140,465	--	--
U.S. Army	\$0	\$0	\$500,000	--	--
U.S. Army Engineer Research & Development Center	\$0	\$0	\$42,878	--	--
U.S. Department of Agriculture	\$51,046,282	\$70,915,158	\$81,094,286	38.9%	58.9%
U.S. Department of Commerce	\$28,590,336	\$35,277,235	\$39,585,704	23.4%	38.5%
U.S. Department of Defense	\$41,609,149	\$54,257,649	\$62,992,813	30.4%	51.4%
U.S. Department of Education	\$28,723,924	\$35,852,807	\$32,608,746	24.8%	13.5%
U.S. Department of Energy	\$7,767,275	\$6,667,916	\$8,835,833	-14.2%	13.8%
U.S. Department of Health and Human Services	\$29,685,629	\$27,999,400	\$28,443,718	-5.7%	-4.2%
U.S. Department of Homeland Security	\$3,756,057	\$3,100,852	\$7,618,675	-17.4%	102.8%
U.S. Department of Housing and Urban Development	\$641,584	\$1,142,859	\$292,499	78.1%	-54.4%
U.S. Department of Interior	\$4,449,595	\$3,482,589	\$4,332,549	-21.7%	-2.6%
U.S. Department of Justice	\$609,958	\$891,205	\$1,993,809	46.1%	226.9%
U.S. Department of Labor	\$5,975,166	\$12,791,811	\$852,799	114.1%	-85.7%
U.S. Department of State	\$194,900	\$25,000	\$0	-87.2%	-100.0%
U.S. Department of the Treasury	\$773,202	\$9,545,053	\$22,500	1134.5%	-97.1%
U.S. Department of Transportation	\$3,132,213	\$979,945	\$5,385,620	-68.7%	71.9%
U.S. Department of Veterans Affairs	\$120,310	\$1,500	\$195,693	-98.8%	62.7%
U.S. Economic Development Administration	\$128,592	\$0	\$0	-100.0%	-100.0%
U.S. Environmental Protection Agency	\$591,233	\$1,019,153	\$866,032	72.4%	46.5%
U.S. Geological Survey	\$282,677	\$54,079	\$309,644	-80.9%	9.5%
U.S. Navy	\$0	\$0	\$305,135	--	--
U.S. Small Business Administration	\$2,109,973	\$2,495,500	\$3,620,916	18.3%	71.6%
Total	\$305,472,106	\$356,692,326	\$407,837,863	16.8%	33.5%

**Summary of Federal External Funding by Funding Source
in Descending Order of Totals by Source, FY 2019**

	ASU	DSU	JSU	MSU	MUW	MVSU	UM	USM	IHL	Grand Total
U.S. Department of Agriculture	\$7,573,336	\$70,165		\$62,536,824			\$10,755,003	\$158,958		\$81,094,286
U.S. Department of Defense			\$600,000	\$30,664,667			\$11,282,794	\$20,445,352		\$62,992,813
National Institutes of Health		\$113,715	\$2,097,160	\$9,540,829			\$50,252,469	\$476,387		\$62,480,560
U.S. Department of Commerce				\$24,994,089			\$1,394,587	\$13,197,028		\$39,585,704
U.S. Department of Education	\$5,906,921	\$493,287	\$10,580,631	\$4,436,302	\$401,628	\$6,587,509	\$1,786,585	\$2,415,883		\$32,608,746
National Science Foundation	\$1,105,214	\$50,000	\$6,176,343	\$12,293,606		\$312,037	\$5,887,011	\$4,461,625		\$30,285,836
U.S. Department of Health and Human Services				\$9,131,670			\$10,796,537	\$7,515,511	\$1,000,000	\$28,443,718
Health Resource and Services Association			\$352,994				\$9,447,936			\$9,800,930
U.S. Department of Energy				\$6,796,768			\$903,171	\$1,135,894		\$8,835,833
Engineering Research & Development Center (ERDC)				\$8,330,616						\$8,330,616
U.S. Department of Homeland Security				\$150,000			\$3,200,736	\$4,267,939		\$7,618,675
U.S. Department of Transportation			\$25,500	\$5,120,860			\$109,306	\$129,954		\$5,385,620
U.S. Department of Interior				\$3,663,685			\$166,627	\$502,237		\$4,332,549
U.S. Agency of International Development				\$3,795,973			\$5,548	\$78,440		\$3,879,961
U.S. Small Business Administration				\$2,030,194			\$1,165,722	\$425,000		\$3,620,916
National Aeronautics and Space Administration		\$15,000		\$852,851	\$15,000		\$880,441	\$1,453,155		\$3,216,447
Office of Naval Research							\$775,467	\$1,910,000		\$2,685,467
U.S. Department of Justice				\$741,906		\$299,995	\$951,908			\$1,993,809
Corporation for National & Community Service				\$66,907			\$42,660	\$663,210	\$915,796	\$1,688,573
Defense Advanced Research Projects Agency								\$991,667		\$991,667
National Oceanic and Atmospheric Admin								\$905,058		\$905,058
U.S. Environmental Protection Agency				\$626,032			\$40,000	\$200,000		\$866,032
U.S. Department of Labor				\$827,799			\$25,000			\$852,799
Tennessee Valley Authority (TVA)				\$662,920						\$662,920
U.S. Department of Army			\$500,000							\$500,000
National Security Agency				\$341,638			\$85,158			\$426,796
National Park Service		\$362,500								\$362,500
National Geospatial Agency		\$357,500								\$357,500
U.S. Geological Survey							\$305,644	\$4,000		\$309,644
U.S. Navy			\$305,135							\$305,135
Gulf Coast Ecosystem Restoration Council				\$199,305				\$99,456		\$298,761
U.S. Department of Housing and Urban Development								\$292,499		\$292,499
National Marine Fisheries Service								\$284,771		\$284,771
Bureau of Justice Assistance								\$273,213		\$273,213
National Endowment for the Humanities		\$170,000		\$6,280			\$68,493	\$7,000		\$251,773
National Highway Traffic Safety Administration				\$215,735						\$215,735
Library of Congress				\$200,000						\$200,000
U.S. Department of Veterans Affairs							\$195,693			\$195,693
United States Airforce			\$140,465							\$140,465
Naval Meteorology & Oceanography Command		\$109,014								\$109,014
Appalachian Regional Commission (ARC)				\$56,250						\$56,250
U.S. Army Engineer Research and Development Center			\$42,878							\$42,878
National Endowment for the Arts				\$19,100			\$4,100	\$10,000		\$33,200
U.S. Department of the Treasury								\$22,500		\$22,500
Grand Total	\$14,585,471	\$1,741,181	\$20,821,107	\$188,302,806	\$416,628	\$7,199,541	\$110,528,596	\$62,326,737	\$1,915,796	\$407,837,863

FY 2019 Research and Sponsored Programs
System Trend of State, Private, Corporate, & Other External Funding

Funding Source	2017 Total	2018 Total	2019 Total	2017-19	2018-19
				% Change	% Change
State Funding [other than general appropriation]	\$4,495,000	\$4,668,833	\$4,502,290	0.2%	-3.6%
State of Mississippi Agencies	\$39,320,692	\$28,543,611	\$14,640,303	-62.8%	-48.7%
Private/Corporate Business and Industry	\$28,902,757	\$22,325,584	\$19,244,499	-33.4%	-13.8%
Foundations and Non-Profit Groups	\$30,981,484	\$44,448,677	\$25,104,550	-19.0%	-43.5%
Other In-State Universities	\$3,136,754	\$1,992,488	\$1,595,792	-49.1%	-19.9%
Other Out-of-State Universities	\$5,278,144	\$3,122,019	\$2,578,544	-51.1%	-17.4%
Local Governments	\$732,051	\$1,018,225	\$1,700,767	132.3%	67.0%
Other State Governments	\$714,377	\$916,312	\$57,572	-91.9%	-93.7%
Foreign Governments & Organizations	\$1,666,903	\$632,762	\$1,207,330	-27.6%	90.8%
Other [all other sources not listed above]	\$42,743	\$0	\$0	-100.0%	--
Total	\$115,270,904	\$107,668,511	\$70,631,647	-38.7%	-34.4%

Percent of Total	2017 Total	2018 Total	2019 Total	2017-19	2018-19
				Change	Change
State Funding [other than general appropriation]	3.9%	4.3%	6.4%	2.5%	2.0%
State of Mississippi Agencies	34.1%	26.5%	20.7%	-13.4%	-5.8%
Private/Corporate Business and Industry	25.1%	20.7%	27.2%	2.2%	6.5%
Foundations and Non-Profit Groups	26.9%	41.3%	35.5%	8.7%	-5.7%
Other In-State Universities	2.7%	1.9%	2.3%	-0.5%	0.4%
Other Out-of-State Universities	4.6%	2.9%	3.7%	-0.9%	0.8%
Local Governments	0.6%	0.9%	2.4%	1.8%	1.5%
Other State Governments	0.6%	0.9%	0.1%	-0.5%	-0.8%
Foreign Governments & Organizations	1.4%	0.6%	1.7%	0.3%	1.1%
Other [all other sources not listed above]	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	0.0%	0.0%

Alcorn State University
Annual Report on Research and Sponsored Programs
July 1, 2018 - June 30, 2019

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

Mr. Alfred L. Galtney, Chief Research Officer
Phone number: 601-877-3965

I. Funding Distribution - College/Division	Number of Projects	Amount
Office of Community Development	7	\$902,045
School of Agriculture, Research, Extension, and Applied Sciences	25	\$7,178,661
School of Arts and Sciences	8	\$996,415
School of Education and Psychology	2	\$1,111,197
School of General College of Excellence	1	\$347,944
School of Graduate Studies	1	\$476,166
School of Nursing	1	\$1,000
Title III Strengthening Institutional Programs	2	\$4,583,226
TOTAL	47	\$15,596,654
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Science Foundation	1	\$1,105,214
U.S. Department of Agriculture	23	\$7,573,336
U.S. Department of Education	5	\$5,906,921
TOTAL Federal Sources	29	\$14,585,471
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	3	\$103,854
Private/Corporate Business and Industry	2	\$49,173
Foundations and Non-Profit Groups	7	\$268,830
Other In-State Universities	3	\$257,000
Other Out-of-State Universities	3	\$332,326
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	18	\$1,011,183
GRAND TOTAL of ALL EXTERNAL FUNDING	47	\$15,596,654

Delta State University
Annual Report on Research and Sponsored Programs
July 1, 2018 - June 30, 2019

Mr. William N. LaForge, President
Phone number: 662-846-4000

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

I. Funding Distribution - College/Division	Number of Projects	Amount
Archives and Museums	1	\$6,254
Athletics	1	\$275,000
Bologna Performing Arts Center	9	\$37,946
Center for Community and Economic Development	5	\$587,431
College of Arts and Sciences	14	\$852,482
College of Education and Human Sciences	4	\$218,304
Delta Center for Culture and Learning	8	\$701,500
Delta Music Institute	3	\$138,496
Graduate and Continuing Studies	3	\$510,926
Office of the President	1	\$6,500
Office of Undergraduate Admissions	1	\$200,000
School of Nursing	1	\$41,734
Student Success Center	1	\$184,800
TOTAL	52	\$3,761,373
II. Funding Sources:		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	1	\$15,000
National Endowment for the Humanities	1	\$170,000
National Institutes of Health	1	\$113,715
National Science Foundation	2	\$50,000
U.S. Department of Agriculture	1	\$70,165
U.S. Department of Education	2	\$493,287
National Park Service	3	\$362,500
National Geospatial Agency	1	\$357,500
Naval Meteorology & Oceanography Command	1	\$109,014
TOTAL Federal Sources	13	\$1,741,181
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	13	\$461,787
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	25	\$1,553,405
Other In-State Universities	0	\$0
Other Out-of-State Universities	1	\$5,000
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	39	\$2,020,192
GRAND TOTAL of ALL EXTERNAL FUNDING	52	\$3,761,373

Jackson State University
Annual Report on Research and Sponsored Programs
July 1, 2018 - June 30, 2019

Dr. William B. Bynum, Jr., President
Phone number: 601-979-1591

Dr. Joseph A. Whittaker, Associate Provost
Phone number: 601-979-2008

I. Funding Distribution - College/Division	Number of Projects	Amount
Office of the President	5	\$9,779,221
Division of Academic Affairs	2	\$505,505
Division of Athletics	0	\$0
Division of Business and Finance	0	\$0
Division of Institutional Advancement	3	\$523,030
Office of Research and Economic Development	1	\$3,194
College of Business	3	\$734,856
College of Education and Human Development	7	\$842,775
College of Liberal Arts	10	\$716,231
College of Public Service	1	\$150,000
College of Engineering, Science and Technology	64	\$11,282,100
School of Public Health	8	\$1,300,587
TOTAL	104	\$25,837,499
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
U.S. Department of Transportation	7	\$25,500
U.S. Army Engineer Research and Development Center	4	\$42,878
United States Airforce	2	\$140,465
U.S. Navy	4	\$305,135
Health Resource and Services Association	1	\$352,994
U.S. Department of Army	1	\$500,000
U.S. Department of Defense	1	\$600,000
National Institutes of Health	7	\$2,097,160
National Science Foundation	12	\$6,176,343
U.S. Department of Education	9	\$10,580,631
TOTAL Federal Sources	48	\$20,821,107
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	13	\$1,150,111
Private/Corporate Business and Industry	5	\$110,982
Foundations and Non-Profit Groups	11	\$513,319
Other In-State Universities	12	\$1,085,562
Other Out-of-State Universities	14	\$2,081,418
Local Governments	1	\$75,000
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	56	\$5,016,392
GRAND TOTAL of ALL EXTERNAL FUNDING	104	\$25,837,499

Mississippi State University
Annual Report on Research and Sponsored Programs
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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	134	\$32,852,504
College of Architecture, Art, and Design	19	\$678,462
College of Arts and Sciences	79	\$6,169,783
College of Business	13	\$2,493,603
College of Education	72	\$5,169,891
College of Forest Resources/Forest Wildlife Research Center	164	\$12,859,047
College of Veterinary Medicine	50	\$5,094,350
Division of Student Affairs	11	\$1,934,036
Honors College	2	\$5,500
Mitchell Memorial Library	2	\$5,000
MS Agricultural and Forestry Experiment Station (MAFES)/CALS	422	\$36,695,669
MS State University Extension Service (MSU ES)	212	\$22,368,319
Office of Graduate Studies	1	\$92,000
University Branch Campus (Meridian)	2	\$45,000
University Centers and Institutes	225	\$77,067,359
Office of the Provost	1	\$25,000
Vice President for Ag, Forestry & Vet Medicine	1	\$384
Vice President for Campus Services	1	\$1,682,699
Vice President for Research and Economic Development	11	\$5,461,450
TOTAL	1,422	\$210,700,057

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Appalachian Regional Commission (ARC)	2	\$56,250
Corporation for National & Community Service	1	\$66,907
Engineering Research & Development Center (ERDC)	7	\$8,330,616
Gulf Coast Ecosystem Restoration Council	2	\$199,305
Library of Congress	1	\$200,000
National Aeronautics and Space Administration	22	\$852,851
National Endowment for the Arts	2	\$19,100
National Endowment for the Humanities	3	\$6,280
National Highway Traffic Safety Administration	1	\$215,735
National Institutes of Health	44	\$9,540,829
National Science Foundation	67	\$12,293,606
National Security Agency	2	\$341,638
Tennessee Valley Authority (TVA)	3	\$662,920
U.S. Agency of International Development	18	\$3,795,973
U.S. Department of Agriculture	240	\$62,536,824
U.S. Department of Commerce	50	\$24,994,089
U.S. Department of Defense	98	\$30,664,667
U.S. Department of Education	42	\$4,436,302
U.S. Department of Energy	28	\$6,796,768
U.S. Department of Health and Human Services	41	\$9,131,670

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II. Funding Sources	Number of	Amount
FEDERAL External Funding by Agency/Department	Projects	
U.S. Department of Homeland Security	2	\$150,000
U.S. Department of Interior	56	\$3,663,685
U.S. Department of Justice	6	\$741,906
U.S. Department of Labor	3	\$827,799
U.S. Department of Transportation	19	\$5,120,860
U.S. Environmental Protection Agency	10	\$626,032
U.S. Small Business Administration	5	\$2,030,194
TOTAL Federal Sources	775	\$188,302,806
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	42	\$4,583,790
Private/Corporate Business and Industry	348	\$6,385,199
Foundations and Non-Profit Groups	223	\$10,510,666
Other In-State Universities	1	\$1,842
Other Out-of-State Universities	3	\$112,300
Local Governments	14	\$361,480
Other State Governments	3	\$52,216
Foreign Governments & Organizations	13	\$389,758
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER	647	\$22,397,251
GRAND TOTAL of ALL EXTERNAL FUNDING	1,422	\$210,700,057

**Mississippi University for Women
Annual Report on Research and Sponsored Programs
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**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*	2	\$4,903,918
Center for Outreach and Innovation	2	\$146,855
College of Arts, Sciences, & Education	2	\$18,500
*Includes total for Mississippi School for Math and Science		
TOTAL	6	\$5,069,273
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	1	\$15,000
U.S. Department of Education	1	\$401,628
TOTAL Federal Sources	2	\$416,628
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	1	\$4,502,290
State of Mississippi Agencies	0	\$0
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	3	\$150,355
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]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER	4	\$4,652,645
GRAND TOTAL of ALL EXTERNAL FUNDING	6	\$5,069,273

Mississippi Valley State University
Annual Report on Research and Sponsored Programs
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Dr. Jerryl Briggs, President
Phone Number: 662-254-3425

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

I. Funding Distribution - College/Division	Number of Projects	Amount
Department of Distance Education	1	\$475,000
Department of English and Foreign Languages	1	\$10,150
Department of Fine Arts	1	\$4,000
Department of Mathematics, Computer and Information Sciences	6	\$797,037
Department of Natural Sciences and Environmental Health	3	\$486,536
Department of Teacher Education	1	\$313,172
Division of Student Affairs	5	\$1,768,115
Division of University Advancement	1	\$208,423
Office of the President	2	\$568,336
Title III Strengthening Institutions Program	2	\$3,824,585
TOTAL	23	\$8,455,354
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Science Foundation	2	\$312,037
U.S. Department of Education	9	\$6,587,509
U.S. Department of Justice	1	\$299,995
TOTAL Federal Sources	12	\$7,199,541
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	4	\$928,370
Private/Corporate Business and Industry	0	
Foundations and Non-Profit Groups	2	\$218,573
Other In-State Universities	4	\$88,870
Other Out-of-State Universities	1	\$20,000
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	11	\$1,255,813
GRAND TOTAL of ALL EXTERNAL FUNDING	23	\$8,455,354

University of Mississippi
Annual Report on Research and Sponsored Programs
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Mr. Larry Sparks, Interim Chancellor
Phone number: 662-915-1100

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	78	\$8,437,188
Division of Outreach and Continuing Education	5	\$61,676
Graduate School	2	\$47,000
Office of the Provost	9	\$673,730
Office of the Vice Chancellor Diversity & Community Engagement	3	\$38,890
Office of the Vice Chancellor for Research and Sponsored Programs	45	\$11,060,458
School of Accountancy	0	\$0
School of Applied Sciences	10	\$2,654,208
School of Business Administration	3	\$1,189,722
School of Education	21	\$7,641,766
School of Engineering	31	\$5,410,766
School of Journalism and New Media	1	\$170,000
School of Law	11	\$1,120,303
School of Pharmacy	82	\$20,440,533
Total Oxford	301	\$58,946,241
B. Medical Center		
Hospital	2	\$323,197
Office of Academic Affairs	3	\$231,410
Office of Diversity and Inclusion	1	\$40,000
Office of Research and Sponosred Programs	3	\$1,278,652
Population Health	22	\$2,898,697
School of Dentistry	17	\$1,852,273
School of Health Related Professions	1	\$2,500
School of Medicine	247	\$65,674,953
School of Nursing	4	\$496,718
University Physicians-Telehealth Services	2	\$2,005,000
Total Medical Center	302	\$74,803,401
TOTAL (UM + UMMC)	603	\$133,749,642

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II. Funding Sources

FEDERAL External Funding by Agency/Department

Corporation for National & Community Service	2	\$42,660
Health Resource and Services Association	23	\$9,447,936
National Aeronautics and Space Administration	3	\$880,441
National Endowment for the Arts	1	\$4,100
National Endowment for the Humanities	3	\$68,493
National Institutes of Health	176	\$50,252,469
National Science Foundation	30	\$5,887,011
National Security Agency	1	\$85,158
U.S. Agency of International Development	1	\$5,548
U.S. Department of Agriculture	18	\$10,755,003
U.S. Department of Commerce	9	\$1,394,587
U.S. Department of Defense	36	\$11,282,794
U.S. Department of Education	9	\$1,786,585
U.S. Department of Energy	7	\$903,171
U.S. Department of Health and Human Services	33	\$10,796,537
U.S. Department of Homeland Security	4	\$3,200,736
U.S. Department of Interior	5	\$166,627
U.S. Department of Justice	2	\$951,908
U.S. Department of Labor	1	\$25,000
U.S. Department of Transportation	1	\$109,306
U.S. Department of Veterans Affairs	2	\$195,693
U.S. Environmental Protection Agency	2	\$40,000
U.S. Geological Survey	4	\$305,644
U.S. Small Business Administration	2	\$1,165,722
Office of Naval Research	1	\$775,467
TOTAL Federal Sources	376	\$110,528,596

STATE, PRIVATE, CORPORATE, OTHER External Funding by

State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	21	\$2,844,095
Private/Corporate Business and Industry	63	\$9,141,643
Foundations and Non-Profit Groups	127	\$9,775,600
Other In-State Universities	3	\$162,518
Other Out-of-State Universities	1	\$6,000
Local Governments	4	\$562,878
Other State Governments	0	\$0
Foreign Governments & Organizations	8	\$728,312
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER	227	\$23,221,046

GRAND TOTAL of ALL EXTERNAL FUNDING	603	\$133,749,642
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University of Southern Mississippi
Annual Report on Research and Sponsored Programs
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Dr. Rodney D. Bennet, President
Phone number: 601-266-5001

Dr. Gordon Cannon, Vice President for Research
Phone number: 601-266-5116

I. Funding Distribution - College/Division	Number of Projects	Amount
College of Arts and Sciences	160	\$34,772,245
College of Education and Human Sciences	63	\$7,722,957
College of Nursing and Health Professions	21	\$3,605,051
Office of Student Affairs	4	\$637,920
Office of the Provost	3	\$549,670
Office of the Vice President for Gulf Park	2	\$6,019
Office of the Vice President for Research	93	\$25,379,057
Total	346	\$72,672,919

II. Funding Sources	Number of Projects	Amount
Federal Funding Source		
Bureau of Justice Assistance	1	\$273,213
Corporation for National & Community Service	3	\$663,210
Defense Advanced Research Projects Agency	1	\$991,667
Gulf Coast Ecosystem Restoration Council	1	\$99,456
National Aeronautics and Space Administration	32	\$1,453,155
National Endowment for the Arts	1	\$10,000
National Endowment for the Humanities	2	\$7,000
National Institutes of Health	3	\$476,387
National Marine Fisheries Service	1	\$284,771
National Oceanic and Atmospheric Admin	4	\$905,058
National Science Foundation	25	\$4,461,625
Office of Naval Research	1	\$1,910,000
U.S. Agency of International Development	1	\$78,440
U.S. Department of Agriculture	5	\$158,958
U.S. Department of Commerce	32	\$13,197,028
U.S. Department of Defense	40	\$20,445,352
U.S. Department of Education	20	\$2,415,883
U.S. Department of Energy	4	\$1,135,894
U.S. Department of Health and Human Services	42	\$7,515,511
U.S. Department of Homeland Security	3	\$4,267,939
U.S. Department of Housing and Urban Development	1	\$292,499
U.S. Department of Interior	9	\$502,237
U.S. Department of the Treasury	1	\$22,500
U.S. Department of Transportation	1	\$129,954
U.S. Environmental Protection Agency	1	\$200,000
U.S. Geological Survey	1	\$4,000
U.S. Small Business Administration	1	\$425,000
TOTAL Federal Sources	237	\$62,326,737

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STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	33	\$4,418,296
Private/Corporate Business and Industry	34	\$3,557,502
Foundations and Non-Profit Groups	33	\$2,113,802
Other In-State Universities	0	\$0
Other Out-of-State Universities	2	\$21,500
Local Governments	5	\$140,466
Other State Governments	1	\$5,356
Foreign Governments & Organizations	1	\$89,260
Other [all other sources not listed above]	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, and OTHER	109	\$10,346,182
GRAND TOTAL of ALL EXTERNAL FUNDING	346	\$72,672,919

IHL Executive Office
Annual Report on Research and Sponsored Programs
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Dr. Alfred Rankins, Jr., Commissioner
Phone number: 601-432-6623

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

I. Funding Distribution - College/Division	Number of Projects	Amount
Academic and Student Affairs	2	\$1,476,739
Government Relations and Strategic Initiatives	2	\$1,500,000
TOTAL	4	\$2,976,739
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	1	\$915,796
U.S. Department of Health and Human Services	1	\$1,000,000
TOTAL Federal Sources	2	\$1,915,796
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	\$560,943
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	2	\$710,943
GRAND TOTAL of ALL EXTERNAL FUNDING	4	\$2,626,739

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.