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# RESEARCH CATALOG



OCTOBER 2020

## PREFACE

### FY 2020 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](http://www.mississippi.edu/research)

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# MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

## FY 2020 Research Catalog - IHL System Summary

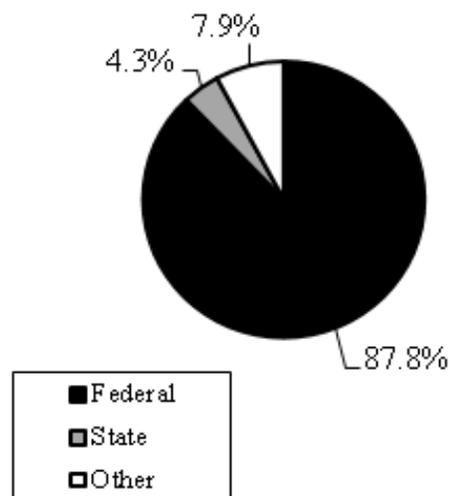
Dr. Alfred Rankins, Commissioner

Period Covered: July 1, 2019 - June 30, 2020

University	Federal*	State/ Local	Private/ Corporate/Other	Total Funding Awarded
ASU	\$29,885,231	\$2,254,151	\$171,611	\$32,310,993
DSU	\$4,127,419	\$373,677	\$1,088,056	\$5,589,152
JSU	\$49,262,416	\$2,203,616	\$2,904,663	\$54,370,695
MSU	\$237,487,191	\$5,926,456	\$16,681,435	\$260,095,082
MUW*	\$2,787,103	\$4,852,470	\$5,400	\$7,644,973
MVSU	\$14,042,307	\$1,231,574	\$20,000	\$15,293,881
UM/UMMC	\$130,620,436	\$1,801,791	\$21,263,139	\$153,685,366
USM	\$63,421,220	\$6,725,051	\$5,303,832	\$75,450,103
Exec. Office	\$1,686,927	\$450,528	\$5,000	\$2,142,455
<b>SYSTEM</b>	<b>\$533,320,250</b>	<b>\$25,819,314</b>	<b>\$47,443,136</b>	<b>\$606,582,700</b>

University	Total Research Projects Supported*
ASU	36
DSU	43
JSU	127
MSU	799
MUW**	11
MVSU	24
UM/UMMC	622
USM	351
Exec. Office	7
<b>SYSTEM</b>	<b>2,020</b>

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 2016	FY 2017	FY 2018	FY 2019	FY 2020*
ASU	\$16,264,478	\$14,700,229	\$13,024,178	\$15,596,654	\$32,310,993
DSU	\$4,999,784	\$5,255,958	\$4,993,152	\$3,761,373	\$5,589,152
JSU	\$33,575,356	\$41,399,589	\$26,242,939	\$25,837,499	\$54,370,695
MSU	\$178,968,746	\$144,187,317	\$197,478,484	\$210,700,057	\$260,095,082
MUW**	\$4,859,180	\$5,417,405	\$5,109,048	\$5,069,273	\$7,644,973
MVSU	\$9,170,959	\$7,581,186	\$7,400,959	\$8,455,354	\$15,293,881
UM/UMMC	\$114,577,193	\$123,290,112	\$134,735,332	\$133,749,642	\$153,685,366
USM	\$59,597,668	\$73,979,487	\$70,285,398	\$72,672,919	\$75,450,103
Exec. Office	\$1,757,329	\$4,931,728	\$5,091,348	\$2,626,739	\$2,142,455
<b>SYSTEM</b>	<b>\$423,770,693</b>	<b>\$420,743,011</b>	<b>\$464,360,838</b>	<b>\$478,469,510</b>	<b>\$606,582,700</b>

### Percent Change in Total External Funding

University	FY 2016 to FY 2017	FY 2017 to FY 2018	FY 2018 to FY 2019	FY 2019 to FY 2020
ASU	-9.6%	-11.4%	19.8%	107.2%
DSU	5.1%	-5.0%	-24.7%	48.6%
JSU	23.3%	-36.6%	-1.5%	110.4%
MSU	-19.4%	37.0%	6.7%	23.4%
MUW**	11.5%	-5.7%	-0.8%	50.8%
MVSU	-17.3%	-2.4%	14.2%	80.9%
UM	7.6%	9.3%	-0.7%	14.9%
USM	24.1%	-5.0%	3.4%	3.8%
Exec. Office	180.6%	3.2%	-48.4%	-18.4%
<b>SYSTEM</b>	<b>-0.7%</b>	<b>10.4%</b>	<b>3.0%</b>	<b>26.8%</b>

### Percent Change in Total Projects Supported

Fiscal Year	# of Projects	% Change
FY 2016	2,449	-0.5%
FY 2017	2,407	-1.7%
FY 2018	2,470	2.6%
FY 2019	2,607	5.5%
FY 2020*	2,020	-22.5%

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

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

**FY 2020 Research and Sponsored Programs  
System Trend of Federal External Funding**

Funding Source	2018 Total	2019 Total	2020 Total*	% Change	
				2018-20	2019-20
Appalachian Regional Commission	\$0	\$56,250	\$190,573	--	--
Bureau of Justice Assistance	\$0	\$273,213	\$0	--	--
Corporation for National & Community Service	\$2,134,795	\$1,688,573	\$1,514,738	-20.9%	-29.0%
Defense Advanced Research Projects Agency	\$0	\$991,667	\$0	--	--
Delta Health Alliance	\$0	\$0	\$24,784	--	--
Engineering Research & Development Center	\$0	\$8,330,616	\$0	--	--
Federal Communication Commission	\$0	\$0	\$1,000,000	--	--
Gulf Coast Ecosystem Restoration Council	\$0	\$298,761	\$0	--	--
Health Resource and Services Administration	\$9,478,558	\$9,800,930	\$10,119,404	3.4%	6.8%
Hexagon	\$0	\$0	\$44,235	--	--
Institute of Museum and Library Sciences	\$534,307	\$0	\$0	-100.0%	-100.0%
Library of Congress	\$0	\$200,000	\$200,000	--	--
Mississippi Band of Choctaw Indians	\$8,759	\$0	\$0	-100.0%	-100.0%
National Aeronautics and Space Administration	\$5,848,190	\$3,216,447	\$3,746,195	-45.0%	-35.9%
National Endowment for the Arts	\$56,400	\$33,200	\$11,000	-41.1%	-80.5%
National Endowment for the Humanities	\$215,789	\$251,773	\$401,657	16.7%	86.1%
National Geospatial Agency	\$0	\$357,500	\$357,500	--	--
National Highway Traffic Safety Administration	\$0	\$215,735	\$0	--	--
National Historical Publications and Records Commission	\$0	\$0	\$16,859	--	--
National Institutes of Health	\$48,438,939	\$62,480,560	\$65,486,833	29.0%	35.2%
National Marine Fisheries Service	\$0	\$284,771	\$0	--	--
National Oceanic and Atmospheric Administration	\$0	\$905,058	\$0	--	--
National Park Service	\$300,000	\$362,500	\$864,926	20.8%	188.3%
National Science Foundation	\$20,900,278	\$30,285,836	\$26,875,017	44.9%	28.6%
National Security Agency	\$460,814	\$426,796	\$0	-7.4%	-100.0%
Naval Research Laboratory	\$99,346	\$0	\$0	-100.0%	-100.0%
Naval Meteorology & Oceanography Command	\$0	\$109,014	\$0	--	--
Office of Naval Research	\$1,370,000	\$2,685,467	\$0	96.0%	-100.0%
Tennessee Valley Authority	\$31,532	\$662,920	\$70,000	2002.4%	122.0%
United Sorghum Checkoff Program	\$21,000	\$0	\$0	-100.0%	-100.0%
U.S. Agency for International Development	\$293,905	\$3,879,961	\$5,761,803	1220.1%	1860.4%
U.S. Air Force	\$0	\$140,465	\$0	--	--
U.S. Army	\$0	\$500,000	\$22,000	--	--
U.S. Army Engineer Research & Development Center	\$0	\$42,878	\$2,340,000	--	--
U.S. Department of Agriculture	\$70,915,158	\$81,094,286	\$80,862,571	14.4%	14.0%
U.S. Department of Commerce	\$35,277,235	\$39,585,704	\$50,093,767	12.2%	42.0%
U.S. Department of Defense	\$54,257,649	\$62,992,813	\$67,450,982	16.1%	24.3%
U.S. Department of Education	\$35,852,807	\$32,608,746	\$134,624,390	-9.0%	275.5%
U.S. Department of Educational and Cultural Affairs	\$0	\$0	\$34,419	--	--
U.S. Department of Energy	\$6,667,916	\$8,835,833	\$10,973,647	32.5%	64.6%
U.S. Department of Health and Human Services	\$27,999,400	\$28,443,718	\$31,143,518	1.6%	11.2%
U.S. Department of Homeland Security	\$3,100,852	\$7,618,675	\$802,396	145.7%	-74.1%
U.S. Department of Housing and Urban Development	\$1,142,859	\$292,499	\$290,189	-74.4%	-74.6%
U.S. Department of Interior	\$3,482,589	\$4,332,549	\$5,971,795	24.4%	71.5%
U.S. Department of Justice	\$891,205	\$1,993,809	\$192,634	123.7%	-78.4%
U.S. Department of Labor	\$12,791,811	\$852,799	\$6,444,086	-93.3%	-49.6%
U.S. Department of State	\$25,000	\$0	\$0	-100.0%	-100.0%
U.S. Department of the Treasury	\$9,545,053	\$22,500	\$7,595,064	-99.8%	-20.4%
U.S. Department of Transportation	\$979,945	\$5,385,620	\$6,117,379	449.6%	524.3%
U.S. Department of Veterans Affairs	\$1,500	\$195,693	\$91,260	12946.2%	5984.0%
U.S. Environmental Protection Agency	\$1,019,153	\$866,032	\$5,940,068	-15.0%	482.8%
U.S. Geological Survey	\$54,079	\$309,644	\$687,914	472.6%	1172.1%
U.S. National Archives and Records Administration	\$0	\$0	\$340,424	--	--
U.S. Navy	\$0	\$305,135	\$75,000	--	--
U.S. Small Business Administration	\$2,495,500	\$3,620,916	\$4,541,223	45.1%	82.0%
<b>Total</b>	<b>\$356,692,326</b>	<b>\$407,837,863</b>	<b>\$533,320,250</b>	<b>14.3%</b>	<b>49.5%</b>

\*Includes federal HEERF/CARES funds disbursed

**Summary of Federal External Funding by Funding Source  
in Descending Order of Totals by Source, FY 2020\***

	ASU	DSU	JSU	MSU	MUW	MVSU	UM_UMC	USM	EO	Grand Total
U.S. Department of Education	\$19,547,549	\$3,166,041	\$36,814,957	\$31,251,580	\$2,666,583	\$13,692,307	\$17,332,475	\$10,152,898		\$134,624,390
U.S. Department of Agriculture	\$10,327,682	\$75,000		\$58,876,119			\$10,241,464	\$1,342,306		\$80,862,571
U.S. Department of Defense			\$129,999	\$45,593,109			\$6,953,865	\$14,774,009		\$67,450,982
National Institutes of Health		\$40,956	\$2,213,771	\$4,521,025	\$105,520		\$58,605,561			\$65,486,833
U.S. Department of Commerce			\$274,399	\$31,449,088			\$1,569,139	\$16,801,141		\$50,093,767
U.S. Department of Health and Human Services				\$14,710,835			\$10,659,943	\$5,772,740		\$31,143,518
National Science Foundation		\$50,000	\$6,319,798	\$11,184,303		\$350,000	\$5,049,378	\$3,921,538		\$26,875,017
U.S. Department of Energy			\$164,931	\$9,882,603			\$641,429	\$284,684		\$10,973,647
Health Resource and Services Association			\$388,038				\$9,731,366			\$10,119,404
U.S. Department of the Treasury				\$873,637			\$820,330	\$5,771,097	\$558,351	\$7,465,064
U.S. Department of Labor				\$5,885,735						\$6,444,086
U.S. Department of Transportation			\$23,500	\$5,870,246			\$223,633			\$6,117,379
U.S. Department of Interior				\$1,785,922			\$2,719,209	\$1,466,664		\$5,971,795
U.S. Environmental Protection Agency				\$5,429,359				\$510,709		\$5,940,068
U.S. Agency of International Development				\$5,677,618			\$5,548	\$78,637		\$5,761,803
U.S. Small Business Administration				\$1,509,313			\$2,991,910	\$40,000		\$4,541,223
National Aeronautics and Space Administration				\$1,007,762	\$15,000		\$1,288,702	\$1,434,731		\$3,746,195
U.S. Army Engineer Research and Development Center			\$2,340,000				\$45,320	\$335,899	\$914,822	\$2,340,000
Corporation for National & Community Service				\$218,697			\$1,000,000			\$1,514,738
Federal Communication Commission										\$1,000,000
National Park Service		\$368,903	\$496,023							\$864,926
U.S. Department of Homeland Security				\$196,000			\$581,396	\$25,000		\$802,396
U.S. Geological Survey				\$687,914						\$687,914
National Endowment for the Humanities				\$4,000			\$51,649	\$346,008		\$401,657
National Geospatial Agency		\$357,500								\$357,500
U.S. National Archives and Records Administration				\$340,424						\$340,424
U.S. Department of Housing and Urban Development								\$290,189		\$290,189
Library of Congress				\$200,000						\$200,000
U.S. Department of Justice				\$36,910				\$71,970	\$83,754	\$192,634
Appalachian Regional Commission				\$190,573					\$130,000	\$190,573
U.S. Department of Treasury							\$91,260			\$130,000
U.S. Department of Veterans Affairs										\$91,260
U.S. Navy			\$75,000							\$75,000
Tennessee Valley Authority				\$70,000						\$70,000
Hexagon		\$44,235								\$44,235
U.S. Department of Educational and Cultural Affairs				\$34,419						\$34,419
Delta Health Alliance		\$24,784								\$24,784
U.S. Department of Army			\$22,000							\$22,000
National Historical Publications and Records Comm							\$16,859			\$16,859
National Endowment for the Arts	\$10,000							\$1,000		\$11,000
<b>Grand Total</b>	<b>\$29,885,231</b>	<b>\$4,127,419</b>	<b>\$49,262,416</b>	<b>\$237,487,191</b>	<b>\$2,787,103</b>	<b>\$14,042,307</b>	<b>\$130,620,436</b>	<b>\$63,421,220</b>	<b>\$1,686,927</b>	<b>\$533,320,250</b>

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

**FY 2020 Research and Sponsored Programs**  
**System Trend of State, Private, Corporate, & Other External Funding**

<b>Funding Source</b>	<b>2018 Total</b>	<b>2019 Total</b>	<b>2020 Total</b>	<b>2018-20 % Change</b>	<b>2019-20 % Change</b>
State Funding [other than general appropriation]	\$4,668,833	\$4,502,290	\$4,852,470	3.9%	7.8%
State of Mississippi Agencies	\$28,543,611	\$14,640,303	\$18,419,466	-35.5%	25.8%
Private/Corporate Business and Industry	\$22,325,584	\$19,244,499	\$19,903,528	-10.8%	3.4%
Foundations and Non-Profit Groups	\$44,448,677	\$25,104,550	\$24,776,967	-44.3%	-1.3%
Other In-State Universities	\$1,992,488	\$1,595,792	\$1,626,229	-18.4%	1.9%
Other Out-of-State Universities	\$3,122,019	\$2,578,544	\$1,826,083	-41.5%	-29.2%
Local Governments	\$1,018,225	\$1,700,767	\$921,149	-9.5%	-45.8%
Other State Governments	\$916,312	\$57,572	\$395,971	-56.8%	587.8%
Foreign Governments & Organizations	\$632,762	\$1,207,330	\$408,587	-35.4%	-66.2%
Other [all other sources not listed above]	\$0	\$0	\$132,000	--	--
<b>Total</b>	<b>\$107,668,511</b>	<b>\$70,631,647</b>	<b>\$73,262,450</b>	<b>-32.0%</b>	<b>3.7%</b>

<b>Percent of Total</b>	<b>2018 Total</b>	<b>2019 Total</b>	<b>2020 Total</b>	<b>2018-20 Change</b>	<b>2019-20 Change</b>
State Funding [other than general appropriation]	4.3%	6.4%	6.6%	2.3%	0.2%
State of Mississippi Agencies	26.5%	20.7%	25.1%	-1.4%	4.4%
Private/Corporate Business and Industry	20.7%	27.2%	27.2%	6.4%	-0.1%
Foundations and Non-Profit Groups	41.3%	35.5%	33.8%	-7.5%	-1.7%
Other In-State Universities	1.9%	2.3%	2.2%	0.4%	0.0%
Other Out-of-State Universities	2.9%	3.7%	2.5%	-0.4%	-1.2%
Local Governments	0.9%	2.4%	1.3%	0.3%	-1.2%
Other State Governments	0.9%	0.1%	0.5%	-0.3%	0.5%
Foreign Governments & Organizations	0.6%	1.7%	0.6%	0.0%	-1.2%
Other [all other sources not listed above]	0.0%	0.0%	0.2%	0.2%	0.2%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>

**Alcorn State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2019 - June 30, 2020**

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

**Dr. Keith McGee, Chief Research Officer**  
**Phone number: 601-877-6140**

I. Funding Distribution - College/Division	Number of Projects	Amount
Office of Community Development	9	\$17,911,652
School of Agriculture, Research, Extension, and Applied Sciences	18	\$8,474,293
School of Arts and Sciences	6	\$703,107
School of Business	0	\$0
School of Education and Psychology	0	\$0
School of General College of Excellence	0	\$0
School of Graduate Studies	1	\$480,944
School of Nursing	0	\$0
Title III Strengthening Institutional Programs	2	\$4,740,997
<b>TOTAL</b>	<b>36</b>	<b>\$32,310,993</b>

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Endowment for the Arts	2	\$10,000
U.S. Department of Agriculture	16	\$10,327,682
U.S. Department of Education*	7	\$19,547,549
<b>TOTAL Federal Sources</b>	<b>25</b>	<b>\$29,885,231</b>

\*Includes federal HEERF/CARES funds.

STATE, PRIVATE, CORPORATE, OTHER External Funding by State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	5	\$2,112,899
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	0	\$0
Other In-State Universities	2	\$141,252
Other Out-of-State Universities	2	\$39,611
Local Governments	0	\$0
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other [ <b>all other sources not listed above</b> ]	2	\$132,000
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>11</b>	<b>\$2,425,762</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>36</b>	<b>\$32,310,993</b>
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**Delta State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2019 - June 30, 2020**

**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
Athletics	1	\$120,000
Bologna Performing Arts Center	10	\$27,789
Center for Community and Economic Development	3	\$614,779
College of Arts and Sciences	12	\$635,489
College of Business and Aviation	1	\$24,784
College of Education and Human Sciences	4	\$426,586
Delta Center for Culture and Learning	3	\$460,388
Delta Music Institute	1	\$135,007
Graduate and Continuing Studies	5	\$408,774
Office of Undergraduate Admissions	1	\$10,000
School of Nursing	1	\$75,000
Institutional Support and Student Grant Aid (HEERF/CARES)	1	\$2,650,556
<b>TOTAL</b>	<b>43</b>	<b>\$5,589,152</b>

II. Funding Sources:

FEDERAL External Funding by Agency/Department		
National Institutes of Health	2	\$40,956
National Science Foundation	1	\$50,000
U.S. Department of Agriculture	1	\$75,000
U.S. Department of Education*	3	\$3,166,041
National Park Service	3	\$368,903
National Geospatial Agency	1	\$357,500
Delta Health Alliance	1	\$24,784
Hexagon	1	\$44,235
<b>TOTAL Federal Sources</b>	<b>13</b>	<b>\$4,127,419</b>

\*Includes federal HEERF/CARES funds.

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	9	\$373,677
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	21	\$1,088,056
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 [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>30</b>	<b>\$1,461,733</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>43</b>	<b>\$5,589,152</b>
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**Jackson State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2019 - June 30, 2020**

**Dr. Thomas K. Hudson, 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	35	\$37,955,896
Division of Academic Affairs	2	\$676,741
Division of Institutional Advancement	3	\$1,054,238
Office of Research and Economic Development	3	\$211,696
College of Business	2	\$228,581
College of Education and Human Development	4	\$557,066
College of Liberal Arts	12	\$1,129,911
College of Health Sciences	7	\$1,538,363
College of Engineering, Science and Technology	59	\$11,018,203
<b>TOTAL</b>	<b>127</b>	<b>\$54,370,695</b>

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
U.S. Department of Commerce	1	\$274,399
U.S. Department of Energy	1	\$164,931
U.S. Department of Transportation	4	\$23,500
U.S. Army Engineer Research and Development Center	3	\$2,340,000
U.S. Navy	2	\$75,000
Health Resource and Services Association	1	\$388,038
U.S. Department of Army	3	\$22,000
U.S. Department of Defense	1	\$129,999
National Institutes of Health	7	\$2,213,771
National Science Foundation	19	\$6,319,798
U.S. Department of Education*	38	\$36,814,957
National Park Service	1	\$496,023
<b>TOTAL Federal Sources</b>	<b>81</b>	<b>\$49,262,416</b>

\*Includes federal HEERF/CARES funds.

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	9	\$1,161,845
Private/Corporate Business and Industry	2	\$247,883
Foundations and Non-Profit Groups	9	\$1,167,754
Other In-State Universities	6	\$1,041,771
Other Out-of-State Universities	20	\$1,489,026
Local Governments	0	\$0
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>46</b>	<b>\$5,108,279</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>127</b>	<b>\$54,370,695</b>
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**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	77	\$31,795,954
College of Architecture, Art, and Design	17	\$1,097,034
College of Arts and Sciences	52	\$6,419,044
College of Business	9	\$2,033,557
College of Education	40	\$6,015,286
College of Forest Resources/Forest Wildlife Research Center	90	\$12,523,816
College of Veterinary Medicine	29	\$2,934,835
Division of Finance and Administration	2	\$17,856,107
Division of Student Affairs	12	\$1,959,065
Mitchell Memorial Library	2	\$344,324
MS Agricultural and Forestry Experiment Station (MAFES)/CAL5	209	\$30,763,858
MS State University Extension Service (MSU ES)	134	\$40,855,489
Office of Graduate Studies	1	\$46,000
University Branch Campus (Meridian)	2	\$200,389
University Centers and Institutes	118	\$97,148,480
Vice President for Campus Services	3	\$4,117,570
Vice President for Research and Economic Development	2	\$3,984,274
<b>TOTAL</b>	<b>799</b>	<b>\$260,095,082</b>
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Appalachian Regional Commission	1	\$190,573
Corporation for National & Community Service	3	\$218,697
Library of Congress	1	\$200,000
National Aeronautics and Space Administration	18	\$1,007,762
National Endowment for the Humanities	2	\$4,000
National Institutes of Health	24	\$4,521,025
National Science Foundation	33	\$11,184,303
Tennessee Valley Authority	1	\$70,000
U.S. Agency of International Development	6	\$5,677,618
U.S. Department of Agriculture	153	\$58,876,119
U.S. Department of Commerce	22	\$31,449,088
U.S. Department of Defense	38	\$45,593,109
U.S. Department of Education*	28	\$31,251,580
U.S. Department of Energy	18	\$9,882,603
U.S. Department of Health and Human Services	40	\$14,710,835
U.S. Department of Homeland Security	3	\$196,000

**Mississippi State University**  
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II. Funding Sources (Continued)	Number of Projects	Amount
FEDERAL External Funding by Agency/Department		
U.S. Department of Interior	30	\$1,785,922
U.S. Department of Justice	2	\$36,910
U.S. Department of Labor	5	\$5,885,735
U.S. Department of State Bureau of Educational and Cultural Affairs	1	\$34,419
U.S. Department of the Treasury	3	\$873,637
U.S. Department of Transportation	6	\$5,870,246
U.S. Environmental Protection Agency	13	\$5,429,359
U.S. Geological Survey	5	\$687,914
U.S. National Archives and Records Administration	1	\$340,424
U.S. Small Business Administration	5	\$1,509,313
<b>TOTAL Federal Sources</b>	<b>462</b>	<b>\$237,487,191</b>

\*Includes federal HEERF/CARES funds.

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	48	\$5,804,790
Private/Corporate Business and Industry	98	\$7,263,828
Foundations and Non-Profit Groups	177	\$8,935,648
Other In-State Universities	0	\$0
Other Out-of-State Universities	2	\$69,916
Local Governments	5	\$121,666
Other State Governments	3	\$182,332
Foreign Governments & Organizations	4	\$229,711
Other [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>337</b>	<b>\$22,607,891</b>

<b>GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING</b>	<b>799</b>	<b>\$260,095,082</b>
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**Mississippi University for Women  
Annual Report on Research and Sponsored Programs  
July 1, 2019 - June 30, 2020**

**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	\$5,223,338
Center for Outreach and Innovation	1	\$1,500
College of Arts, Sciences, & Education	5	\$124,420
Institutional Support and Student Grant Aid (HEERF/CARES)	3	\$2,295,715
<b>TOTAL</b>	<b>11</b>	<b>\$7,644,973</b>

\*Includes total for Mississippi School for Math and Science

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	1	\$15,000
National Institutes of Health	3	\$105,520
U.S. Department of Education*	4	\$2,666,583
<b>TOTAL Federal Sources</b>	<b>8</b>	<b>\$2,787,103</b>

\*Includes federal HEERF/CARES funds.

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	1	\$4,852,470
State of Mississippi Agencies	0	\$0
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	2	\$5,400
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 [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>3</b>	<b>\$4,857,870</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>11</b>	<b>\$7,644,973</b>

**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 Mathematics, Computer and Information Sciences	2	\$265,000
Department of Natural Sciences and Environmental Health	4	\$901,204
Department of Social Sciences	2	\$4,500
Department of Social Work	1	\$5,500
Department of Teacher Education	2	\$604,055
Division of Student Affairs	4	\$1,345,364
Office of the President	6	\$7,994,960
Title III Strengthening Institutions Program	2	\$3,698,298
<b>TOTAL</b>	<b>24</b>	<b>\$15,293,881</b>

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Science Foundation	1	\$350,000
U.S. Department of Education*	11	\$13,692,307
<b>TOTAL Federal Sources</b>	<b>12</b>	<b>\$14,042,307</b>

\*Includes federal HEERF/CARES funds.

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	5	\$1,146,314
Private/Corporate Business and Industry	0	\$0
Foundations and Non-Profit Groups	4	\$20,000
Other In-State Universities	3	\$85,260
Other Out-of-State Universities	0	\$0
Local Governments	0	\$0
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other <b>[all other sources not listed above]</b>	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>12</b>	<b>\$1,251,574</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>24</b>	<b>\$15,293,881</b>

**University of Mississippi**  
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**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
<b>A. Oxford Campus</b>		
College of Liberal Arts	79	\$7,763,492
Division of Outreach and Continuing Education	3	\$15,712
Graduate School	1	\$1,000
Office of the Provost	5	\$260,000
Office of Vice Chancellor for Administration and Finance	2	\$16,642,638
Office of Vice Chancellor for Diversity & Community Engagement	1	\$289,837
Office of the Vice Chancellor for Research and Sponsored Programs	53	\$8,519,828
School of Applied Sciences	10	\$6,905,214
School of Business Administration	5	\$3,023,510
School of Education	14	\$4,839,697
School of Engineering	27	\$3,507,486
School of Law	16	\$1,272,599
School of Pharmacy	57	\$18,284,871
University Libraries	2	\$18,859
<b>Total Oxford</b>	<b>275</b>	<b>\$71,344,743</b>
<b>B. Medical Center</b>		
Dentistry	14	\$1,568,274
Hospital	1	\$110,633
Medicine	278	\$71,757,404
Nursing	11	\$1,354,912
Health Related Professions	3	\$254,500
Research and Sponosred Programs	1	\$145,310
Population Health	34	\$4,889,535
Academic Affairs	2	\$154,055
Health Innovation and Transfer Center	1	\$100,000
UP-Telehealth Services	1	\$2,000,000
Office of Mississippi Physician Workforce	1	\$6,000
<b>Total Medical Center</b>	<b>347</b>	<b>\$82,340,623</b>
<b>TOTAL (UM + UMMC)</b>	<b>622</b>	<b>\$153,685,367</b>

**University of Mississippi**  
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II. Funding Sources

FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	2	\$45,320
Health Resource and Services Association*	32	\$9,731,366
National Aeronautics and Space Administration	6	\$1,288,702
National Endowment for the Humanities	4	\$51,649
National Institutes of Health	187	\$58,605,561
National Science Foundation	26	\$5,049,378
U.S. Agency of International Development	1	\$5,548
U.S. Department of Agriculture	15	\$10,241,464
U.S. Department of Commerce	18	\$1,569,139
U.S. Department of Defense	27	\$6,953,865
U.S. Department of Education*	6	\$17,332,475
U.S. Department of Energy	6	\$641,429
U.S. Department of Health and Human Services*	28	\$10,659,943
U.S. Department of Homeland Security	4	\$581,396
U.S. Department of Interior	14	\$2,719,209
U.S. Department of Transportation	3	\$223,633
U.S. Department of Veterans Affairs	1	\$91,260
U.S. Small Business Administration*	4	\$2,991,910
National Historical Publications and Records Commission	1	\$16,859
U.S. Department of the Treasury	2	\$820,330
Federal Communication Commission*	1	\$1,000,000
<b>TOTAL Federal Sources</b>	<b>388</b>	<b>\$130,620,436</b>

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

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	15	\$1,264,935
Private/Corporate Business and Industry	89	\$10,078,153
Foundations and Non-Profit Groups	106	\$10,691,177
Other In-State Universities	6	\$357,946
Other Out-of-State Universities	8	\$199,958
Local Governments	4	\$178,910
Other State Governments	2	\$208,039
Foreign Governments & Organizations	4	\$85,812
Other [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>234</b>	<b>\$23,064,930</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>622</b>	<b>\$153,685,366</b>
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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 Letters	152	\$35,175,311
College of Business and Economic Development	1	\$45,578
College of Education and Human Sciences	55	\$5,625,817
College of Nursing and Health Professions	21	\$4,067,685
Office of Student Affairs	5	\$411,843
Office of the Provost	7	\$672,566
Office of the Vice President for Finance and Administration	2	\$7,409,925
Office of the Vice President for Research	108	\$22,041,378
<b>Total</b>	<b>351</b>	<b>\$75,450,103</b>

II. Funding Sources	Number of Projects	Amount
Federal Funding Source		
Corporation for National & Community Service	3	\$335,899
National Aeronautics and Space Administration	34	\$1,434,731
National Endowment for the Arts	1	\$1,000
National Endowment for the Humanities	2	\$346,008
National Science Foundation*	29	\$3,921,538
U.S. Agency of International Development	1	\$78,637
U.S. Department of Agriculture	6	\$1,342,306
U.S. Department of Commerce*	47	\$16,801,141
U.S. Department of Defense	33	\$14,774,009
U.S. Department of Education*	26	\$10,152,898
U.S. Department of Energy	2	\$284,684
U.S. Department of Health and Human Services*	30	\$5,772,740
U.S. Department of Homeland Security	1	\$25,000
U.S. Department of Housing and Urban Development	1	\$290,189
U.S. Department of Interior	11	\$1,466,664
U.S. Department of Justice	1	\$71,970
U.S. Environmental Protection Agency	3	\$510,709
U.S. Small Business Administration*	1	\$40,000
U.S. Department of the Treasury*	7	\$5,771,097
<b>TOTAL Federal Sources</b>	<b>239</b>	<b>\$63,421,220</b>

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

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STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$0
State of Mississippi Agencies	50	\$6,405,006
Private/Corporate Business and Industry	13	\$2,308,664
Foundations and Non-Profit Groups	37	\$2,868,932
Other In-State Universities	0	\$0
Other Out-of-State Universities	3	\$27,572
Local Governments	7	\$320,045
Other State Governments	1	\$5,600
Foreign Governments & Organizations	1	\$93,064
Other [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>112</b>	<b>\$12,028,883</b>
<b>GRAND TOTAL of <u>ALL</u> EXTERNAL FUNDING</b>	<b>351</b>	<b>\$75,450,103</b>

**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	3	\$1,220,350
Government Relations and Strategic Initiatives	4	\$922,105
<b>TOTAL</b>	<b>7</b>	<b>\$2,142,455</b>
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	1	\$914,822
U.S. Department of Justice	1	\$83,754
U.S. Department of Labor	1	\$558,351
U.S. Department of Treasury	1	\$130,000
<b>TOTAL Federal Sources</b>	<b>4</b>	<b>\$1,686,927</b>
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	1	\$5,000
Foundations and Non-Profit Groups	0	\$0
Other In-State Universities	0	\$0
Other Out-of-State Universities	0	\$0
Local Governments	1	\$300,528
Other State Governments	0	\$0
Foreign Governments & Organizations	0	\$0
Other [ <b>all other sources not listed above</b> ]	0	\$0
<b>TOTAL STATE, PRIVATE, CORPORATE &amp; OTHER Sources</b>	<b>3</b>	<b>\$455,528</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>7</b>	<b>\$2,142,455</b>

## University Research Groups

## **Mississippi University Research Authority (MURA)**

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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)**

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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)

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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.