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RESEARCH CATALOG



OCTOBER 2014

PREFACE

FY 2014 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:

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Office of Strategic Data Management
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MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

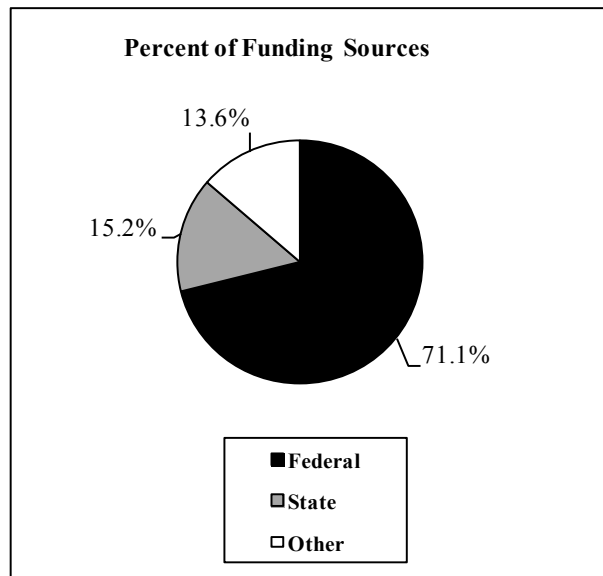
FY 2014 Research Catalog - IHL System Summary

Dr. Hank M. Bounds, Commissioner

Period Covered: July 1, 2013 - June 30, 2014

University	Federal	State	Private/ Corporate/Other	Total Funding Awarded
ASU	\$12,339,970	\$478,823	\$1,237,622	\$14,056,414
DSU	\$2,341,850	\$525,193	\$1,417,209	\$4,284,252
JSU	\$26,218,958	\$1,304,895	\$839,828	\$28,363,681
MSU	\$101,845,546	\$23,641,207	\$17,427,615	\$142,914,368
MUW*	\$164,000	\$4,465,000	\$935,315	\$5,564,315
MVSU	\$5,475,649	\$642,416	\$405,500	\$6,523,565
UM/UMMC	\$94,916,648	\$21,122,971	\$23,226,608	\$139,266,227
USM	\$40,975,568	\$8,740,750	\$9,073,951	\$58,790,269
SYSTEM	\$284,278,189	\$60,921,255	\$54,563,647	\$399,763,091

University	Total Research Projects Supported
ASU	58
DSU	49
JSU	134
MSU	1,421
MUW*	13
MVSU	17
UM/UMMC	581
USM	297
SYSTEM	2,570



* 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

<u>University</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>
ASU	\$28,504,626	\$30,821,885	\$29,947,232	\$17,304,430	\$14,056,414
DSU	\$13,877,250	\$6,137,743	\$7,086,255	\$4,184,742	\$4,284,252
JSU	\$68,178,800	\$57,023,314	\$48,664,799	\$36,242,977	\$28,363,681
MSU	\$201,621,088	\$166,660,258	\$134,904,345	\$114,819,900	\$142,914,368
MUW*	\$6,531,459	\$6,664,021	\$6,469,649	\$5,304,013	\$5,564,315
MVSU	\$7,527,441	\$12,273,455	\$7,866,330	\$6,757,655	\$6,523,565
UM	\$101,932,683	\$78,854,347	\$49,644,887	\$61,555,860	\$57,211,683
UMMC	\$75,368,727	\$84,995,810	\$60,214,620	\$44,517,037	\$82,054,544
USM	\$82,801,673	\$77,724,860	\$63,342,586	\$52,195,616	\$58,790,269
SYSTEM	\$586,343,747	\$521,155,694	\$408,140,703	\$342,882,231	\$399,763,091

Percent Change in Total External Funding

<u>University</u>	<u>FY 2010</u> <u>to FY 2011</u>	<u>FY 2011</u> <u>to FY 2012</u>	<u>FY 2012</u> <u>to FY 2013</u>	<u>FY 2013</u> <u>to FY 2014</u>
ASU	8.1%	-2.8%	-42.2%	-18.8%
DSU	-55.8%	15.5%	-40.9%	2.4%
JSU	-16.4%	-14.7%	-25.5%	-21.7%
MSU	-17.3%	-19.1%	-14.9%	24.5%
MUW*	2.0%	-2.9%	-18.0%	4.9%
MVSU	63.0%	-35.9%	-14.1%	-3.5%
UM	-22.6%	-37.0%	24.0%	-7.1%
UMMC	12.8%	-29.2%	-26.1%	84.3%
USM	-6.1%	-18.5%	-17.6%	12.6%
SYSTEM	-11.1%	-21.7%	-16.0%	16.6%

Percent Change in Total Projects Supported

<u>Fiscal Year</u>	<u># of Projects</u>	<u>% Change</u>
FY 2010	2,524	
FY 2011	2,530	0.2%
FY 2012	2,392	-5.5%
FY 2013	2,059	-13.9%
FY 2014	2,570	24.8%

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

**FY 2014 Research and Sponsored Programs
System Trend of Federal External Funding**

Funding Source	2012 Total	2013 Total	2014 Total	2013-14 % Change	2012-14 % Change
Appalachian Regional Commission	\$346,418	\$729,589	\$200,000	-72.6%	-42.3%
Corporation for National & Community Service	\$1,589,262	\$1,085,917	\$1,028,681	-5.3%	-35.3%
Defense Threat Reduction Agency	\$-	\$7,323	\$-	-100.0%	n/a
Defense Advanced Research Projects Agency	\$-	\$-	\$3,500	n/a	n/a
Delta Area Economic Development	\$-	\$450,000	\$-	-100.0%	n/a
Delta Regional Authority	\$-	\$-	\$1,207,323	n/a	n/a
Engineering Research & Development Center	\$821,626	\$1,053,829	\$8,118,762	670.4%	888.1%
Federal Highway Administration	\$-	\$55,000	\$232,477	322.7%	n/a
Federal Motor Carrier Safety Administration	\$-	\$-	\$344,110	n/a	n/a
Fund for the Improvement of Postsecondary Education	\$34,250	\$-	\$-	n/a	-100.0%
Health Resource and Services Association	\$5,873,936	\$5,611,661	\$5,457,395	-2.7%	-7.1%
Institute of Museum and Library Sciences	\$526,139	\$7,190	\$-	-100.0%	-100.0%
Library of Congress	\$-	\$-	\$20,000	n/a	n/a
Missile Defense Agency	\$-	\$5,550	\$-	-100.0%	n/a
National Aeronautics and Space Administration	\$5,045,754	\$5,731,558	\$4,544,192	-20.7%	-9.9%
National Endowment for the Arts	\$34,266	\$53,210	\$68,391	28.5%	99.6%
National Endowment for the Humanities	\$324,714	\$306,930	\$671,022	118.6%	106.7%
National Highway Traffic Safety Administration	\$975,649	\$850,833	\$1,421,022	67.0%	45.6%
National Institute of Justice	\$-	\$264,603	\$-	-100.0%	n/a
National Institutes of Health	\$49,930,769	\$35,634,122	\$58,598,333	64.4%	17.4%
National Oceanic and Atmospheric Administration	\$108,991	\$-	\$-	n/a	-100.0%
National Science Foundation	\$23,858,495	\$24,627,523	\$22,117,810	-10.2%	-7.3%
National Security Agency	\$75,505	\$69,966	\$340,451	386.6%	350.9%
NAVAIR SYSCOM	\$519,417	\$726,001	\$787,773	8.5%	51.7%
Nuclear Regulatory Commission	\$-	\$-	\$199,966	n/a	n/a
Office of Juvenile Justice and Delinquency Prevention	\$-	\$-	\$82,000	n/a	n/a
Office of Naval Research	\$-	\$-	\$66,000	n/a	n/a
Open World Leadership Center	\$-	\$17,653	\$-	-100.0%	n/a
Substance Abuse & Mental Health Services Administration	\$-	\$-	\$101,390	n/a	n/a
Tennessee Valley Authority	\$5,309	\$-	\$-	n/a	-100.0%
U.S. Agency for International Development	\$-	\$-	\$1,564,269	n/a	n/a
U.S. Army Corps of Engineers	\$30,619	\$-	\$-	n/a	-100.0%
U.S. Army Tank Automotive & Armaments Command	\$139,927	\$-	\$-	n/a	-100.0%
U.S. Department of Agriculture	\$49,887,743	\$45,691,440	\$53,283,422	16.6%	6.8%
U.S. Department of Commerce	\$15,781,991	\$11,565,840	\$14,989,734	29.6%	-5.0%
U.S. Department of Defense	\$30,488,918	\$19,766,261	\$21,275,847	7.6%	-30.2%
U.S. Department of Education	\$43,735,837	\$31,855,896	\$27,614,041	-13.3%	-36.9%
U.S. Department of Energy	\$18,606,376	\$4,547,393	\$5,809,649	27.8%	-68.8%
U.S. Department of Health and Human Services	\$35,747,684	\$28,350,883	\$29,612,507	4.5%	-17.2%
U.S. Department of Homeland Security	\$5,384,438	\$2,915,811	\$1,624,454	-44.3%	-69.8%
U.S. Department of Housing and Urban Development	\$2,087,898	\$858,566	\$11,761,009	1269.8%	463.3%
U.S. Department of Interior	\$7,139,323	\$2,984,118	\$4,107,016	37.6%	-42.5%
U.S. Department of Justice	\$2,392,891	\$773,185	\$165,278	-78.6%	-93.1%
U.S. Department of Labor	\$9,500,616	\$4,577,117	\$1,557,870	-66.0%	-83.6%
U.S. Department of State	\$3,085,647	\$121,877	\$36,119	-70.4%	-98.8%
U.S. Department of Transportation	\$6,274,648	\$5,937,780	\$2,244,837	-62.2%	-64.2%
U.S. Department of Veterans Affairs	\$76,976	\$29,250	\$240,987	723.9%	213.1%
U.S. Economic Development Administration	\$142,880	\$628,592	\$528,592	-15.9%	270.0%
U.S. Environmental Protection Agency	\$1,108,421	\$1,153,733	\$669,973	-41.9%	-39.6%
U.S. Fish and Wildlife Service	\$-	\$546,845	\$-	-100.0%	n/a
U.S. Food and Drug Administration	\$-	\$438,958	\$305,568	-30.4%	n/a
U.S. Geological Survey	\$190,000	\$-	\$-	n/a	-100.0%
U.S. National Archives and Records Administration	\$113,198	\$-	\$-	n/a	-100.0%
U.S. Small Business Administration	\$2,658,063	\$1,414,307	\$1,276,419	-9.7%	-52.0%
Total	\$324,644,594	\$241,446,307	\$284,278,189	17.7%	-12.4%

**Summary of Federal External Funding by Funding Source
in Descending Order of Totals by Source, FY 2014**

Funding Source	ASU	DSU	JSU	MSU	MUW	MVSU	UM/UMMC	USM	2014 Total
National Institutes of Health	\$111,027	\$-	\$10,988,228	\$5,378,643	\$125,000	\$-	\$41,995,435	\$-	\$58,598,333
U.S. Department of Agriculture	\$5,499,493	\$200,463	\$-	\$33,584,979	\$-	\$-	\$11,510,966	\$2,487,521	\$53,283,422
U.S. Department of Health and Human Services	\$379,632	\$87,762	\$1,003,584	\$6,762,086	\$29,000	\$-	\$11,231,573	\$10,118,870	\$29,612,507
U.S. Department of Education	\$5,046,986	\$200,124	\$4,330,718	\$6,439,184	\$-	\$4,852,164	\$700,164	\$6,044,701	\$27,614,041
National Science Foundation	\$-	\$208,288	\$6,181,308	\$9,724,890	\$-	\$623,485	\$1,767,822	\$3,612,017	\$22,117,810
U.S. Department of Defense	\$953,866	\$152,595	\$1,031,486	\$8,597,468	\$-	\$-	\$7,004,071	\$3,536,361	\$21,275,847
U.S. Department of Commerce	\$-	\$-	\$491,893	\$5,713,440	\$-	\$-	\$1,153,465	\$7,630,936	\$14,989,734
U.S. Department of Housing and Urban Development	\$-	\$-	\$-	\$93,832	\$-	\$-	\$10,000,000	\$1,667,177	\$11,761,009
Engineering Research & Development Center	\$-	\$-	\$-	\$8,118,762	\$-	\$-	\$-	\$-	\$8,118,762
U.S. Department of Energy	\$-	\$-	\$412,500	\$4,114,916	\$-	\$-	\$1,282,233	\$-	\$5,809,649
Health Resource and Services Association	\$29,000	\$524,839	\$-	\$-	\$-	\$-	\$4,903,556	\$-	\$5,457,395
National Aeronautics and Space Administration	\$-	\$-	\$30,000	\$1,420,711	\$10,000	\$-	\$776,148	\$2,307,333	\$4,544,192
U.S. Department of Interior	\$-	\$228,000	\$-	\$2,632,761	\$-	\$-	\$98,130	\$1,148,125	\$4,107,016
U.S. Department of Transportation	\$65,000	\$-	\$266,183	\$1,174,781	\$-	\$-	\$98,193	\$640,680	\$2,244,837
U.S. Department of Homeland Security	\$45,000	\$-	\$1,128,700	\$67,569	\$-	\$-	\$72,000	\$311,185	\$1,624,454
U.S. Agency of International Development	\$-	\$-	\$-	\$1,564,269	\$-	\$-	\$-	\$-	\$1,564,269
U.S. Department of Labor	\$-	\$-	\$-	\$1,557,870	\$-	\$-	\$-	\$-	\$1,557,870
National Highway Traffic Safety Administration	\$-	\$-	\$-	\$1,421,022	\$-	\$-	\$-	\$-	\$1,421,022
U.S. Small Business Administration	\$-	\$-	\$132,692	\$79,685	\$-	\$-	\$1,009,116	\$54,926	\$1,276,419
Delta Regional Authority	\$-	\$-	\$-	\$289,923	\$-	\$-	\$917,400	\$-	\$1,207,323
Corporation for National & Community Service	\$-	\$462,178	\$-	\$-	\$-	\$-	\$25,000	\$541,503	\$1,028,681
NAVAIR SYSCOM	\$-	\$-	\$-	\$787,773	\$-	\$-	\$-	\$-	\$787,773
National Endowment for the Humanities	\$-	\$177,601	\$185,547	\$3,000	\$-	\$-	\$-	\$304,874	\$671,022
U.S. Environmental Protection Agency	\$-	\$-	\$-	\$189,226	\$-	\$-	\$-	\$480,747	\$669,973
U.S. Economic Development Administration	\$-	\$-	\$-	\$528,592	\$-	\$-	\$-	\$-	\$528,592
Federal Motor Carrier Safety Administration	\$-	\$-	\$-	\$344,110	\$-	\$-	\$-	\$-	\$344,110
National Security Agency	\$-	\$-	\$-	\$340,451	\$-	\$-	\$-	\$-	\$340,451
U.S. Food and Drug Administration	\$-	\$-	\$-	\$305,568	\$-	\$-	\$-	\$-	\$305,568
U.S. Department of Veterans Affairs	\$-	\$-	\$-	\$123,277	\$-	\$-	\$104,376	\$13,334	\$240,987
Federal Highway Administration	\$-	\$-	\$-	\$232,477	\$-	\$-	\$-	\$-	\$232,477
Appalachian Regional Commission	\$-	\$-	\$-	\$-	\$-	\$-	\$200,000	\$-	\$200,000
Nuclear Regulatory Commission	\$199,966	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$199,966
U.S. Department of Justice	\$-	\$100,000	\$-	\$-	\$-	\$-	\$-	\$65,278	\$165,278
Substance Abuse and Mental Health Services Admin.	\$-	\$-	\$-	\$101,390	\$-	\$-	\$-	\$-	\$101,390
Office of Juvenile Justice and Delinquency Prevention	\$-	\$-	\$-	\$82,000	\$-	\$-	\$-	\$-	\$82,000
National Endowment for the Arts	\$10,000	\$-	\$-	\$47,391	\$-	\$-	\$1,000	\$10,000	\$68,391
Office of Naval Research	\$-	\$-	\$-	\$-	\$-	\$-	\$66,000	\$-	\$66,000
U.S. Department of State	\$-	\$-	\$36,119	\$-	\$-	\$-	\$-	\$-	\$36,119
Library of Congress	\$-	\$-	\$-	\$20,000	\$-	\$-	\$-	\$-	\$20,000
Defense Advanced Research Projects Agency	\$-	\$-	\$-	\$3,500	\$-	\$-	\$-	\$-	\$3,500
Total	\$12,339,970	\$2,341,850	\$26,214,958	\$101,845,546	\$164,000	\$5,475,649	\$94,916,648	\$40,975,568	\$284,278,189

Alcorn State University
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

Dr. Alfred Rankins, Jr., President
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	1	\$200,000
School of Agriculture, Research, Extension, and Applied Sciences	32	\$6,641,650
School of Arts and Sciences	16	\$2,041,463
School of Education and Psychology	4	\$380,359
School of General College of Excellence	2	\$329,290
School of Graduate Studies	1	\$474,500
School of Nursing	1	\$29,000
Title III Strengthening Institutional Programs	1	\$3,960,152
TOTAL	58	\$14,056,414
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
Health Resource and Services Association	1	\$29,000
National Endowment for the Arts	1	\$10,000
National Institutes of Health	1	\$111,027
Nuclear Regulatory Commission	1	\$199,966
U.S. Department of Agriculture	15	\$5,499,493
U.S. Department of Defense	1	\$953,866
U.S. Department of Education	4	\$5,046,986
U.S. Department of Health and Human Services	2	\$379,632
U.S. Department of Homeland Security	1	\$45,000
U.S. Department of Transportation	1	\$65,000
TOTAL Federal Sources	28	\$12,339,970
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	3	\$27,291
Private/Corporate Business and Industry	3	\$379,453
Foundations and Non-Profit Groups	10	\$547,505
Other State Governments	0	\$-
Other In-State Universities	6	\$451,532
Other Out-of-State Universities	8	\$310,664
Local Governments	0	\$-
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	30	\$1,716,444
GRAND TOTAL of ALL EXTERNAL FUNDING	58	\$14,056,414

Delta State University
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

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

Mr. Steven McClellan, Vice President for Finance and Administration
Phone number: 662-846-4004

Ms. Robin Boyles, Chief Research Officer
Phone number: 662-846-4804

I. Funding Distribution - College/Division	Number of Projects	Amount
Archives and Museums	2	\$8,350
Bologna Performing Arts Center	2	\$5,300
Center for Community and Economic Development	3	\$599,304
College of Arts and Sciences	15	\$569,035
College of Education and Human Sciences	11	\$1,153,423
Delta Center for Culture and Learning	5	\$1,103,741
Department of Athletics	1	\$32,000
Graduate and Continuing Studies	1	\$1,500
Office of Academic Affairs	4	\$59,998
Office of the Associate Vice President-Finance and Administration	1	\$10,000
Office of Student Affairs	1	\$87,762
Office of the President	1	\$100,000
School of Nursing	2	\$553,839
TOTAL	49	\$4,284,252

II. Funding Sources:		
FEDERAL External Funding by Agency/Department		
Corporation for National & Community Service	1	\$462,178
Health Resource and Services Association	1	\$524,839
National Endowment for the Humanities	1	\$177,601
National Science Foundation	1	\$208,288
U.S. Department of Agriculture	1	\$200,463
U.S. Department of Defense	1	\$152,595
U.S. Department of Education	1	\$200,124
U.S. Department of Health and Human Services	1	\$87,762
U.S. Department of Interior	2	\$228,000
U.S. Department of Justice	1	\$100,000
TOTAL Federal Sources	11	\$2,341,850

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	3	\$106,086
State of Mississippi Agencies	8	\$263,389
Private/Corporate Business and Industry	3	\$17,684
Foundations and Non-Profit Groups	15	\$1,399,525
Other State Governments	0	\$-
Other In-State Universities	3	\$64,000
Other Out-of-State Universities	0	\$-
Local Governments	6	\$91,718
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	38	\$1,942,402

GRAND TOTAL of ALL EXTERNAL FUNDING	49	\$4,284,252
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Jackson State University
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

Dr. Carolyn W. Meyers, President
Phone number: 601-979-2323

Dr. Loretta A. Moore, Chief Research Officer
Phone number: 601-979-2931

I. Funding Distribution - College/Division	Number of Projects	Amount
College of Business	1	\$132,692
College of Education & Human Development	14	\$592,549
College of Liberal Arts	8	\$895,527
College of Public Service	24	\$5,064,431
College of Science, Engineering & Technology	64	\$15,093,044
Division of Academic Affairs	7	\$407,919
Division of Business Finance	2	\$27,820
Division of Research, Development, & Federal Relations	4	\$1,436,527
Office of Institutional Advancement	6	\$882,450
Office of the President	4	\$3,830,722
TOTAL	134	\$28,363,681
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	1	\$30,000
National Endowment for the Humanities	1	\$185,547
National Institutes of Health	29	\$10,988,228
National Science Foundation	20	\$6,181,308
U.S. Department of Commerce	4	\$491,893
U.S. Department of Defense	14	\$1,031,486
U.S. Department of Education	8	\$4,330,718
U.S. Department of Energy	1	\$412,500
U.S. Department of Health and Human Services	6	\$1,003,584
U.S. Department of Homeland Security	5	\$1,128,700
U.S. Department of Transportation	6	\$266,183
U.S. Small Business Administration	1	\$132,692
U.S. Department of State	1	\$36,119
TOTAL Federal Sources	97	\$26,218,958
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	25	\$1,304,895
Private/Corporate Business and Industry	7	\$454,748
Foundations and Non-Profit Groups	5	\$385,080
Other State Governments	0	\$-
Other In-State Universities	0	\$-
Other Out-of-State Universities	0	\$-
Local Governments	0	\$-
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	37	\$2,144,723
GRAND TOTAL of ALL EXTERNAL FUNDING	134	\$28,363,681

Mississippi State University
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

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

Dr. David Shaw, Chief Research Officer
Phone number: 662-325-3570

I. Funding Distribution - College/Division	Number of Projects	Amount
Accountancy	1	\$12,500
Bagley College of Engineering	199	\$27,675,690
Career Center	1	\$500
College of Architecture, Art, and Design	13	\$290,765
College of Arts and Sciences	91	\$6,860,598
College of Business	5	\$220,277
College of Education	124	\$13,257,532
College of Forest Resources/Forest Wildlife Research Center	143	\$8,726,492
College of Veterinary Medicine	37	\$5,628,086
Division of Student Affairs	11	\$744,846
Honors College	1	\$150
Mitchell Memorial Library	4	\$53,184
MS Agricultural and Forestry Experiment Station / CALS	407	\$22,616,566
MS State University Extension Service	229	\$23,962,616
Office of Graduate Studies	1	\$16,000
Outreach/Continuing Education	1	\$55,724
University Branch Campus (Meridian)	2	\$51,132
University Centers and Institutes	133	\$30,016,411
Vice President for Campus Services	1	\$937,056
Vice President for Research and Economic Development	17	\$1,788,242
TOTAL	1,421	142,914,368

II. Funding Sources

FEDERAL External Funding by Agency/Department		
Defense Advanced Research Projects Agency	1	\$3,500
Delta Regional Authority	1	\$289,923
Engineering Research & Development Center	31	\$8,118,762
Federal Highway Administration	4	\$232,477
Federal Motor Carrier Safety Administration	1	\$344,110
Library of Congress	1	\$20,000
National Aeronautics and Space Administration	24	\$1,420,711
National Endowment for the Arts	7	\$47,391
National Endowment for the Humanities	1	\$3,000
National Highway Traffic Safety Administration	6	\$1,421,022
National Institutes of Health	30	\$5,378,643
National Science Foundation	47	\$9,724,890
NAVAIR SYSCOM	11	\$787,773
National Security Agency	3	\$340,451
Office of Juvenile Justice and Delinquency Prevention	2	\$82,000
Substance Abuse and Mental Health Services Administration	1	\$101,390
U.S. Agency of International Development	5	\$1,564,269
U.S. Department of Agriculture	147	\$33,584,979
U.S. Department of Commerce	43	\$5,713,440
U.S. Department of Defense	82	\$8,597,468
U.S. Department of Education	84	\$6,439,184
U.S. Department of Energy	31	\$4,114,916
U.S. Department of Health and Human Services	14	\$6,762,086
U.S. Department of Homeland Security	6	\$67,569
U.S. Department of Housing and Urban Development	3	\$93,832
U.S. Department of Interior	30	\$2,632,761

**Mississippi State University
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014**

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

**Dr. David Shaw, Chief Research Officer
Phone number: 662-325-3570**

II. Funding Sources	Number of Projects	Amount
FEDERAL External Funding by Agency/Department Continued		
U.S. Department of Labor	7	\$1,557,870
U.S. Department of Transportation	7	\$1,174,781
U.S. Department of Veterans Affairs	5	\$123,277
U.S. Economic Development Administration	3	\$528,592
U.S. Environmental Protection Agency	3	\$189,226
U.S. Food and Drug Administration	3	\$305,568
<u>U.S. Small Business Administration</u>	<u>4</u>	<u>\$79,685</u>
TOTAL Federal Sources	648	\$101,845,546
	Number of Projects	Amount
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	81	\$23,261,597
Private/Corporate Business and Industry	470	\$7,727,192
Foundations and Non-Profit Groups	182	\$8,739,591
Other State Governments	6	\$360,925
Other In-State Universities	1	\$43,628
Other Out-of-State Universities	8	\$220,987
Local Governments	21	\$335,982
Foreign Governments & Organizations	4	\$378,919
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$-</u>
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	773	\$41,068,822
GRAND TOTAL of ALL EXTERNAL FUNDING	1,421	\$142,914,368

**Mississippi University for Women
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014**

**Dr. Jim B. Borsig, President
Phone number 662-329-7100**

**Dr. Thomas Richardson, Interim Provost & Vice President for Academic Affairs
Phone number: 662-329-7142**

I. Funding Distribution - College/Division	Number of Projects	Amount
Academic Support *	1	\$4,370,000
Center for Creative Learning	1	\$398,547
College of Arts and Sciences	4	\$135,000
College of Education and Human Sciences	3	\$100,167
College of Nursing	1	\$29,000
Other Units	3	\$531,601
*Includes total for Mississippi School for Math and Science		\$4,370,000
TOTAL	13	\$5,564,315

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	1	\$10,000
National Institutes of Health	3	\$125,000
<u>U.S. Department of Health and Human Services</u>	<u>1</u>	<u>\$29,000</u>
TOTAL Federal Sources	5	\$164,000
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	1	\$4,370,000
State of Mississippi Agencies	2	\$95,000
Private/Corporate Business and Industry	0	\$-
Foundations and Non-Profit Groups	3	\$531,601
Other State Governments	2	\$403,714
Other In-State Universities	0	\$-
Other Out-of-State Universities	0	\$-
Local Governments	0	\$-
Foreign Governments & Organizations	0	\$-
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$-</u>
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	8	\$5,400,315
GRAND TOTAL of ALL EXTERNAL FUNDING	13	\$5,564,315

**Mississippi Valley State University
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014**

**Dr. William B. Bynum, Jr., 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 English and Foreign Languages	1	\$10,000
Department of Health, Physical Education and Recreation	1	\$250,000
Department of Mathematics and Computer Information Sciences	3	\$633,485
Department of Natural Sciences and Environmental Health	2	\$520,500
Department of Teacher Education	1	\$30,972
Division of Academic Affairs	1	\$30,000
Division of Student Affairs	2	\$1,035,573
Office of the Chief Operating Officer	3	\$670,944
Title III Strengthening Institutions Program	2	\$3,098,513
University College	1	\$243,578
TOTAL	17	\$6,523,565
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Science Foundation	2	\$623,485
U.S. Department of Education	6	\$4,852,164
TOTAL Federal Sources	8	\$5,475,649
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	3	\$555,444
Private/Corporate Business and Industry	1	\$145,500
Foundations and Non-Profit Groups	1	\$250,000
Other State Governments	0	\$-
Other In-State Universities	3	\$86,972
Other Out-of-State Universities	1	\$10,000
Local Governments	0	\$-
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	9	\$1,047,916
GRAND TOTAL of ALL EXTERNAL FUNDING	17	\$6,523,565

University of Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

Dr. Daniel W. Jones, Chancellor
Phone number: 662-915-1100

Dr. Alice M. Clark, Vice Chancellor for Research and Sponsored Programs
Phone number: 662-915-7583

Dr. James Keeton, Vice Chancellor for Health Affairs
Phone number: 601-984-1058

Dr. Richard Summers, Associate Vice Chancellor for Research
Phone number: 601-815-5000

I. Funding Distribution - College/Division	Number of Projects	Amount
A. Oxford Campus		
Barksdale Reading Institute	1	\$3,000,000
College of Liberal Arts	76	\$6,565,349
Division of Outreach and Continuing Education	8	\$792,821
Graduate School	1	\$46,000
Office of the Chancellor	1	\$238,820
Office of the Provost	5	\$63,493
Office of the Vice Chancellor for Research	34	\$10,147,483
Office of the Vice Chancellor for Student Affairs	3	\$18,281
School of Applied Sciences	26	\$12,716,326
School of Business Administration	2	\$1,009,116
School of Education	12	\$2,135,759
School of Engineering	44	\$4,776,048
School of Journalism and New Media	1	\$57,106
School of Law	13	\$1,216,852
School of Pharmacy	40	\$14,427,029
<u>University Libraries</u>	<u>1</u>	<u>\$1,200</u>
Total Oxford	268	\$57,211,683
B. Medical Center		
Holmes County Hospital Administration	2	\$18,318
Office of Research and Sponsored Programs	1	\$42,589
Office of the Vice Chancellor for Health Affairs	12	\$13,671,098
School of Dentistry	12	\$2,077,598
School of Medicine	277	\$64,622,727
School of Nursing	7	\$541,604
<u>UMMC Hospital Administration</u>	<u>2</u>	<u>\$1,080,610</u>
Total Medical Center	313	\$82,054,544
TOTAL (UM + UMMC)	581	\$139,266,227

University of Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

Dr. Daniel W. Jones, Chancellor
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Phone number: 662-915-7583

Dr. James Keeton, Vice Chancellor for Health Affairs
Phone number: 601-984-1058

Dr. Richard Summers, Associate Vice Chancellor for Research
Phone number: 601-815-5000

II. Funding Sources

FEDERAL External Funding by Agency/Department

Appalachian Regional Commission	1	\$200,000
Corporation for National & Community Service	1	\$25,000
Delta Regional Authority	1	\$917,400
Health Resource and Services Association	37	\$4,903,556
National Aeronautics and Space Administration	5	\$776,148
National Endowment for the Humanities	1	\$1,000
National Institutes of Health	127	\$41,995,435
National Science Foundation	14	\$1,767,822
Office of Naval Research	3	\$66,000
U.S. Department of Agriculture	19	\$11,510,966
U.S. Department of Commerce	4	\$1,153,465
U.S. Department of Defense	32	\$7,004,071
U.S. Department of Education	6	\$700,164
U.S. Department of Energy	11	\$1,282,233
U.S. Department of Health and Human Services	28	\$11,231,573
U.S. Department of Homeland Security	1	\$72,000
U.S. Department of Housing and Urban Development	1	\$10,000,000
U.S. Department of Interior	3	\$98,130
U.S. Department of Transportation	1	\$98,193
U.S. Department of Veterans Affairs	2	\$104,376
<u>U.S. Small Business Administration</u>	<u>2</u>	<u>\$1,009,116</u>
TOTAL Federal Sources	300	\$94,916,648

STATE, PRIVATE, CORPORATE, OTHER External Funding by

State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	78	\$21,090,471
Private/Corporate Business and Industry	60	\$5,793,700
Foundations and Non-Profit Groups	115	\$16,121,361
Other State Governments	1	\$47,500
Other In-State Universities	0	\$-
Other Out-of-State Universities	17	\$845,414
Local Governments	4	\$32,500
Foreign Governments & Organizations	6	\$418,633
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$-</u>
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	281	\$44,349,579

GRAND TOTAL of ALL EXTERNAL FUNDING	581	\$139,266,227
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University of Southern Mississippi
Annual Report on Research and Sponsored Programs
July 1, 2013 - June 30, 2014

Dr. Rodney D. Bennett, President
Phone number: 601-266-5001

Dr. Gordon Cannon, Chief Research Officer
Phone number: 601-266-5116

I. Funding Distribution - College/Division	Number of Projects	Amount
College of Arts and Letters	19	\$781,357
College of Education and Psychology	41	\$3,396,072
College of Health	32	\$7,003,568
College of Nursing	3	\$88,446
College of Science and Technology	138	\$33,165,231
Gulf Coast Vice President	2	\$54,081
Office of Student Affairs	6	\$1,781,031
Office of the Provost	3	\$635,498
Office of the Vice President for Research	53	\$11,884,985
Total	297	\$58,790,269

II. Funding Sources	Number of Projects	Amount
Federal Funding Source		
Corporation for National & Community Service	2	\$541,503
National Aeronautics and Space Administration	13	\$2,307,333
National Endowment for the Arts	1	\$10,000
National Endowment for the Humanities	12	\$304,874
National Science Foundation	27	\$3,612,017
U.S. Department of Agriculture	6	\$2,487,521
U.S. Department of Commerce	21	\$7,630,936
U.S. Department of Defense	7	\$3,536,361
U.S. Department of Education	31	\$6,044,701
U.S. Department of Health and Human Services	27	\$10,118,870
U.S. Department of Homeland Security	1	\$311,185
U.S. Department of Housing and Urban Development	4	\$1,667,177
U.S. Department of Interior	8	\$1,148,125
U.S. Department of Justice	1	\$65,278
U.S. Department of Transportation	4	\$640,680
U.S. Department of Veterans Affairs	1	\$13,334
U.S. Environmental Protection Agency	3	\$480,747
<u>U.S. Small Business Administration</u>	<u>2</u>	<u>\$54,926</u>
TOTAL Federal Sources	171	\$40,975,568

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	46	\$8,086,512
Private/Corporate Business and Industry	38	\$7,119,553
Foundations and Non-Profit Groups	29	\$1,185,510
Other State Governments	6	\$559,568
Other In-State Universities	2	\$574,446
Other Out-of-State Universities	1	\$5,000
Local Governments	1	\$79,792
Foreign Governments & Organizations	3	\$172,439
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$31,881</u>
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	126	\$17,814,701

GRAND TOTAL of ALL EXTERNAL FUNDING	297	\$58,790,269
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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.