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# RESEARCH CATALOG



OCTOBER 2015

## PREFACE

### FY 2015 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:

Eric S. Atchison  
Office of Strategic Research  
3825 Ridgewood Road  
Jackson, MS 39211  
Phone: (601) 432-6288  
[www.mississippi.edu/research](http://www.mississippi.edu/research)

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# MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

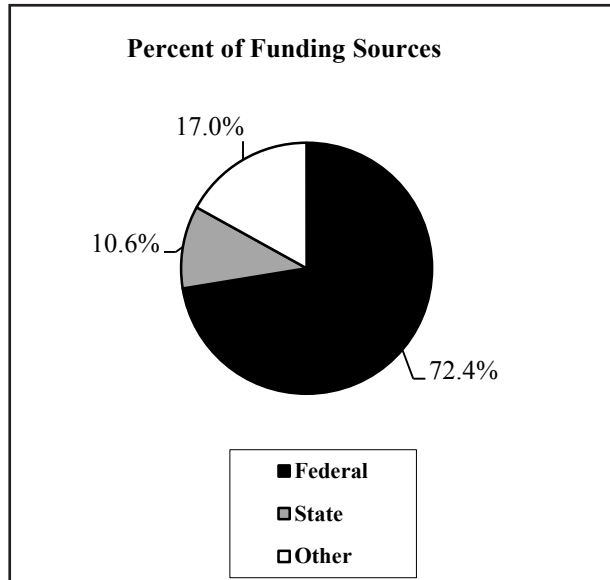
## FY 2015 Research Catalog - IHL System Summary

Dr. Glenn F. Boyce, Commissioner

Period Covered: July 1, 2014 - June 30, 2015

University	Federal	State	Private/ Corporate/Other	Total Funding Awarded
ASU	\$12,460,430	\$711,680	\$250,831	\$13,422,941
DSU	\$4,632,979	\$83,324	\$2,104,086	\$6,820,389
JSU	\$27,160,087	\$1,122,700	\$1,183,842	\$29,466,629
MSU	\$128,922,576	\$22,366,388	\$16,254,294	\$167,543,258
MUW*	\$180,000	\$4,535,000	\$1,001,500	\$5,716,500
MVSU	\$5,232,727	\$761,722	\$556,000	\$6,550,449
UM/UMMC	\$76,734,902	\$8,668,931	\$28,735,997	\$114,139,830
USM	\$46,436,510	\$5,980,616	\$20,558,921	\$72,976,047
<b>SYSTEM</b>	<b>\$301,760,211</b>	<b>\$44,230,361</b>	<b>\$70,645,471</b>	<b>\$416,636,043</b>

University	Total Research Projects Supported
ASU	53
DSU	55
JSU	136
MSU	1,368
MUW*	9
MVSU	25
UM/UMMC	546
USM	264
<b>SYSTEM</b>	<b>2,456</b>



\* 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

<b>University</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
ASU	\$30,821,885	\$29,947,232	\$17,304,430	\$14,056,414	\$13,422,941
DSU	\$6,137,743	\$7,086,255	\$4,184,742	\$4,284,252	\$6,820,389
JSU	\$57,023,314	\$48,664,799	\$36,242,977	\$28,363,681	\$29,466,629
MSU	\$166,660,258	\$134,904,345	\$114,819,900	\$142,914,368	\$167,543,258
MUW*	\$6,664,021	\$6,469,649	\$5,304,013	\$5,564,315	\$5,716,500
MVSU	\$12,273,455	\$7,866,330	\$6,757,655	\$6,523,565	\$6,550,449
UM	\$78,854,347	\$49,644,887	\$61,555,860	\$57,211,683	\$62,310,548
UMMC	\$84,995,810	\$60,214,620	\$44,517,037	\$82,054,544	\$51,829,282
USM	\$77,724,860	\$63,342,586	\$52,195,616	\$58,790,269	\$72,976,047
<b>SYSTEM</b>	<b>\$521,155,694</b>	<b>\$408,140,703</b>	<b>\$342,882,231</b>	<b>\$399,763,091</b>	<b>\$416,636,043</b>

### Percent Change in Total External Funding

<b>University</b>	<b>FY 2011 to FY 2012</b>	<b>FY 2012 to FY 2013</b>	<b>FY 2013 to FY 2014</b>	<b>FY 2014 to FY 2015</b>
ASU	-2.8%	-42.2%	-18.8%	-4.5%
DSU	15.5%	-40.9%	2.4%	59.2%
JSU	-14.7%	-25.5%	-21.7%	3.9%
MSU	-19.1%	-14.9%	24.5%	17.2%
MUW*	-2.9%	-18.0%	4.9%	2.7%
MVSU	-35.9%	-14.1%	-3.5%	0.4%
UM	-37.0%	24.0%	-7.1%	8.9%
UMMC	-29.2%	-26.1%	84.3%	-36.8%
USM	-18.5%	-17.6%	12.6%	24.1%
<b>SYSTEM</b>	<b>-21.7%</b>	<b>-16.0%</b>	<b>16.6%</b>	<b>4.2%</b>

### Percent Change in Total Projects Supported

<b>Fiscal Year</b>	<b># of Projects</b>	<b>% Change</b>
FY 2011	2,530	0.2%
FY 2012	2,392	-5.5%
FY 2013	2,059	-13.9%
FY 2014	2,570	24.8%
FY 2015	2,456	-4.4%

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

**FY 2015 Research and Sponsored Programs  
System Trend of Federal External Funding**

<b>Funding Source</b>	<b>2013 Total</b>	<b>2014 Total</b>	<b>2015 Total</b>	<b>2013-15 % Change</b>	<b>2014-15 % Change</b>
Appalachian Regional Commission	\$729,589	\$200,000	\$-	-100.0%	-100.0%
Corporation for National & Community Service	\$1,085,917	\$1,028,681	\$1,156,281	6.5%	12.4%
Defense Threat Reduction Agency	\$7,323	\$-	\$-	-100.0%	n/a
Defense Advanced Research Projects Agency	\$-	\$3,500	\$7,500	n/a	114.3%
Delta Area Economic Development	\$450,000	\$-	\$-	-100.0%	n/a
Delta Regional Authority	\$-	\$1,207,323	\$-	n/a	-100.0%
Embassy of the United States of America, Baghdad, Iraq	\$-	\$-	\$161,922	n/a	n/a
Engineering Research & Development Center	\$1,053,829	\$8,118,762	\$-	-100.0%	-100.0%
Federal Highway Administration	\$55,000	\$232,477	\$-	-100.0%	-100.0%
Federal Motor Carrier Safety Administration	\$-	\$344,110	\$-	n/a	-100.0%
Health Resource and Services Association	\$5,611,661	\$5,457,395	\$4,834,208	-13.9%	-11.4%
Institute of Museum and Library Sciences	\$7,190	\$-	\$-	-100.0%	n/a
Library of Congress	\$-	\$20,000	\$-	n/a	-100.0%
Missile Defense Agency	\$5,550	\$-	\$4,129	-25.6%	n/a
National Aeronautics and Space Administration	\$5,731,558	\$4,544,192	\$5,071,231	-11.5%	11.6%
National Endowment for the Arts	\$53,210	\$68,391	\$46,893	-11.9%	-31.4%
National Endowment for the Humanities	\$306,930	\$671,022	\$189,955	-38.1%	-71.7%
National Highway Traffic Safety Administration	\$850,833	\$1,421,022	\$966,327	13.6%	-32.0%
National Institute of Health	\$35,634,122	\$58,598,333	\$53,066,783	48.9%	-9.4%
National Institute of Justice	\$264,603	\$-	\$843,376	218.7%	n/a
National Institute for Occupational Safety & Health	\$-	\$-	\$67,455	n/a	n/a
National Science Foundation	\$24,627,523	\$22,117,810	\$21,295,910	-13.5%	-3.7%
National Security Agency	\$69,966	\$340,451	\$5,769,480	8146.2%	1594.7%
NAVAIR SYSCOM	\$726,001	\$787,773	\$581,093	-20.0%	-26.2%
Nuclear Regulatory Commission	\$-	\$199,966	\$314,726	n/a	57.4%
Office of Juvenile Justice and Delinquency Prevention	\$-	\$82,000	\$96,547	n/a	17.7%
Office of Naval Research	\$-	\$66,000	\$1,033,998	n/a	1466.7%
Open World Leadership Center	\$17,653	\$-	\$-	-100.0%	n/a
Substance Abuse & Mental Health Services Administration	\$-	\$101,390	\$202,683	n/a	99.9%
United Sorghum Checkoff Program	\$-	\$-	\$37,000	n/a	n/a
U.S. Agency for International Development	\$-	\$1,564,269	\$1,094,857	n/a	-30.0%
U.S. Army	\$-	\$-	\$565,468	n/a	n/a
U.S. Army Corps of Engineers	\$-	\$-	\$8,295,247	n/a	n/a
U.S. Department of Agriculture	\$45,691,440	\$53,283,422	\$66,761,680	46.1%	25.3%
U.S. Department of Commerce	\$11,565,840	\$14,989,734	\$17,169,938	48.5%	14.5%
U.S. Department of Defense	\$19,766,261	\$21,275,847	\$16,094,973	-18.6%	-24.4%
U.S. Department of Education	\$31,855,896	\$27,614,041	\$34,109,070	7.1%	23.5%
U.S. Department of Energy	\$4,547,393	\$5,809,649	\$12,075,071	165.5%	107.8%
U.S. Department of Health and Human Services	\$28,350,883	\$29,612,507	\$33,133,843	16.9%	11.9%
U.S. Department of Homeland Security	\$2,915,811	\$1,624,454	\$1,603,059	-45.0%	-1.3%
U.S. Department of Housing and Urban Development	\$858,566	\$11,761,009	\$1,485,198	73.0%	-87.4%
U.S. Department of Interior	\$2,984,118	\$4,107,016	\$3,079,220	3.2%	-25.0%
U.S. Department of Justice	\$773,185	\$165,278	\$215,405	-72.1%	30.3%
U.S. Department of Labor	\$4,577,117	\$1,557,870	\$4,696,867	2.6%	201.5%
U.S. Department of State	\$121,877	\$36,119	\$247,000	102.7%	583.9%
U.S. Department of State Bureau of Educ. & Cult. Affairs	\$-	\$-	\$67,084	n/a	n/a
U.S. Department of Transportation	\$5,937,780	\$2,244,837	\$1,388,997	-76.6%	-38.1%
U.S. Department of Veterans Affairs	\$29,250	\$240,987	\$85,500	192.3%	-64.5%
U.S. Economic Development Administration	\$628,592	\$528,592	\$128,592	-79.5%	-75.7%
U.S. Environmental Protection Agency	\$1,153,733	\$669,973	\$1,059,387	-8.2%	58.1%
U.S. Fish and Wildlife Service	\$546,845	\$-	\$-	-100.0%	n/a
U.S. Food and Drug Administration	\$438,958	\$305,568	\$381,481	-13.1%	24.8%
U.S. Small Business Administration	\$1,414,307	\$1,276,419	\$2,115,842	49.6%	65.8%
UT-Battelle	\$-	\$-	\$102,434	n/a	n/a
Vietnam Education Foundation	\$-	\$-	\$56,500	n/a	n/a
<b>Total</b>	<b>\$241,446,307</b>	<b>\$284,278,189</b>	<b>\$301,760,211</b>	<b>25.0%</b>	<b>6.1%</b>



**Summary of Federal External Funding by Funding Source  
in Descending Order of Totals by Source, FY 2015**

Funding Source	ASU	DSU	JSU	MSU	MUW	MVSU	UM/UMMC	USM	2015 Total
National Institute of Health	\$-	\$-	\$9,891,413	\$5,366,997	\$50,000	\$-	\$37,758,373	\$-	\$53,066,783
U.S. Department of Energy	\$4,989,146	\$1,944,231	\$6,925,706	\$11,004,112	\$90,000	\$4,975,010	\$869,978	\$9,831,434	\$40,629,617
U.S. Department of Agriculture	\$-	\$-	\$-	\$38,133,174	\$-	\$-	\$-	\$-	\$38,133,174
U.S. Department of Commerce	\$7,226,094	\$258,400	\$-	\$9,378,192	\$30,000	\$56,912	\$19,838,837	\$1,218,263	\$38,006,698
National Science Foundation	\$145,190	\$-	\$4,896,526	\$8,489,761	\$-	\$185,840	\$817,276	\$6,761,317	\$21,295,910
U.S. Department of Health and Human Services	\$-	\$-	\$-	\$17,118,125	\$-	\$-	\$1,049,959	\$21,000	\$18,189,084
U.S. Department of Homeland Security	\$-	\$87,762	\$299,319	\$142,391	\$-	\$-	\$6,508,183	\$9,120,454	\$16,158,109
U.S. Department of Education	\$-	\$83,800	\$2,870,088	\$4,483,565	\$-	\$-	\$1,886,599	\$6,475,163	\$15,799,215
U.S. Department of Defense	\$-	\$-	\$438,737	\$4,779,323	\$-	\$-	\$375,000	\$6,978,009	\$12,571,069
U.S. Army Corps of Engineers	\$-	\$-	\$-	\$8,295,247	\$-	\$-	\$-	\$-	\$8,295,247
National Security Agency	\$-	\$-	\$-	\$5,769,480	\$-	\$-	\$-	\$-	\$5,769,480
National Aeronautics and Space Administration	\$-	\$-	\$147,380	\$1,479,367	\$10,000	\$-	\$2,146,725	\$1,287,759	\$5,071,231
U.S. Department of Labor	\$-	\$100,000	\$-	\$4,696,867	\$-	\$-	\$-	\$45,447	\$4,842,314
Health Resource and Services Association	\$-	\$1,054,368	\$-	\$-	\$-	\$-	\$3,779,840	\$-	\$4,834,208
U.S. Department of Interior	\$-	\$-	\$-	\$2,241,919	\$-	\$-	\$-	\$1,408,898	\$3,650,817
United Sorghum Checkoff Program	\$-	\$-	\$132,692	\$37,000	\$-	\$-	\$1,021,506	\$553,741	\$1,744,939
U.S. Department of Housing and Urban Development	\$-	\$-	\$839,000	\$76,300	\$-	\$-	\$-	\$621,668	\$1,536,968
U.S. Food and Drug Administration	\$-	\$-	\$-	\$381,481	\$-	\$14,965	\$256,276	\$696,146	\$1,348,868
Corporation for National & Community Service	\$-	\$462,178	\$-	\$-	\$-	\$-	\$25,000	\$669,103	\$1,156,281
U.S. Agency for International Development	\$-	\$-	\$-	\$1,094,857	\$-	\$-	\$-	\$-	\$1,094,857
Office of Naval Research (ONR)	\$-	\$-	\$-	\$1,033,998	\$-	\$-	\$-	\$-	\$1,033,998
National Highway Traffic Safety Administration	\$-	\$-	\$-	\$966,327	\$-	\$-	\$-	\$-	\$966,327
U.S. Department of Veterans Affairs	\$65,000	\$-	\$429,500	\$55,500	\$-	\$-	\$91,835	\$320,089	\$961,924
U.S. Department of Justice	\$-	\$300,000	\$-	\$69,958	\$-	\$-	\$118,581	\$418,720	\$907,259
National Institute of Justice	\$-	\$-	\$-	\$843,376	\$-	\$-	\$-	\$-	\$843,376
NAVAIR SYSCOM	\$-	\$-	\$-	\$581,093	\$-	\$-	\$-	\$-	\$581,093
U.S. Army	\$-	\$-	\$-	\$565,468	\$-	\$-	\$-	\$-	\$565,468
U.S. Department of Transportation	\$-	\$67,084	\$-	\$482,573	\$-	\$-	\$-	\$-	\$549,657
U.S. Small Business Administration	\$-	\$-	\$-	\$407,903	\$-	\$-	\$-	\$-	\$407,903
Nuclear Regulatory Commission	\$25,000	\$-	\$289,726	\$-	\$-	\$-	\$-	\$-	\$314,726
Substance Abuse and Mental Health Services Administration	\$-	\$-	\$-	\$202,683	\$-	\$-	\$-	\$-	\$202,683
National Endowment for the Humanities	\$-	\$175,156	\$-	\$3,500	\$-	\$-	\$2,000	\$9,299	\$189,955
Embassy of the United States of America, Baghdad, Iraq	\$-	\$-	\$-	\$161,922	\$-	\$-	\$-	\$-	\$161,922
U.S. Economic Development Administration	\$-	\$-	\$-	\$128,592	\$-	\$-	\$30,000	\$-	\$158,592
U.S. Department of State	\$-	\$-	\$-	\$147,000	\$-	\$-	\$-	\$-	\$147,000
UT-Battelle	\$-	\$-	\$-	\$-	\$-	\$-	\$102,434	\$-	\$102,434
U.S. Department of State Bureau of Educ. & Cult. Affairs	\$100,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$100,000
Office of Juvenile Justice and Delinquency Prevention	\$-	\$-	\$-	\$96,547	\$-	\$-	\$-	\$-	\$96,547
U.S. Environmental Protection Agency	\$-	\$-	\$-	\$92,000	\$-	\$-	\$-	\$-	\$92,000
National Institute for Occupational Safety & Health	\$-	\$-	\$-	\$67,455	\$-	\$-	\$-	\$-	\$67,455
Vietnam Education Foundation	\$-	\$-	\$-	\$-	\$-	\$-	\$56,500	\$-	\$56,500
National Endowment for the Arts	\$10,000	\$-	\$-	\$36,893	\$-	\$-	\$-	\$-	\$46,893
Defense Advanced Research Projects Agency	\$-	\$-	\$-	\$7,500	\$-	\$-	\$-	\$-	\$7,500
Missile Defense Agency (MDA)	\$-	\$-	\$-	\$4,129	\$-	\$-	\$-	\$-	\$4,129
<b>Total</b>	<b>\$12,460,430</b>	<b>\$4,632,979</b>	<b>\$27,160,087</b>	<b>\$128,922,576</b>	<b>\$180,000</b>	<b>\$5,232,727</b>	<b>\$76,734,902</b>	<b>\$46,436,510</b>	<b>\$301,760,211</b>

**Alcorn State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2014 - June 30, 2015**

**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
School of Agriculture, Research, Extension, and Applied Sciences	34	\$7,445,303
School of Arts and Sciences	13	\$821,492
School of Education and Psychology	1	\$117,000
School of General College of Excellence	3	\$670,353
School of Graduate Studies	1	\$464,000
Title III Strengthening Institutional Programs	1	\$3,904,793
<b>TOTAL</b>	<b>53</b>	<b>\$13,422,941</b>
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Endowment for the Arts	1	\$10,000
National Science Foundation	2	\$145,190
Nuclear Regulatory Commission	1	\$25,000
U.S. Department of Agriculture	30	\$7,226,094
U.S. Department of Education	4	\$4,989,146
U.S. Department of Transportation	1	\$65,000
<b>TOTAL Federal Sources</b>	<b>39</b>	<b>\$12,460,430</b>
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	4	\$435,000
Private/Corporate Business and Industry	0	\$-
Foundations and Non-Profit Groups	2	\$166,312
Other State Governments	0	\$-
Other In-State Universities	6	\$276,680
Other Out-of-State Universities	2	\$84,519
Local Governments	0	\$-
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>14</b>	<b>\$962,511</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>53</b>	<b>\$13,422,941</b>

**Delta State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2014 - June 30, 2015**

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

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

I. Funding Distribution - College/Division	Number of Projects	Amount
Archives and Museums	3	\$9,350
Bologna Performing Arts Center	7	\$58,665
Center for Community and Economic Development	2	\$502,078
College of Arts and Sciences	14	\$364,968
College of Business	4	\$293,093
College of Education and Human Sciences	6	\$696,678
Delta Center for Culture and Learning	2	\$475,156
Department of Athletics	1	\$50,000
Graduate and Continuing Studies	1	\$1,105,780
Office of Academic Affairs	2	\$1,735,475
Office of the Associate Vice President-Finance and Administration	3	\$43,000
Office of the President	2	\$150,000
Office of Student Affairs	1	\$87,762
School of Nursing	7	\$1,248,384
<b>TOTAL</b>	<b>55</b>	<b>\$6,820,389</b>

**II. Funding Sources:**

**FEDERAL External Funding by Agency/Department**

Corporation for National & Community Service	1	\$462,178
Health Resource and Services Association	3	\$1,054,368
National Endowment for the Humanities	1	\$175,156
U.S. Department of Agriculture	2	\$258,400
U.S. Department of Defense	1	\$83,800
U.S. Department of Education	3	\$1,944,231
U.S. Department of Health and Human Services	1	\$87,762
U.S. Department of Interior	1	\$300,000
U.S. Department of Justice	1	\$100,000
U.S. Department of State	1	\$100,000
U.S. Department of State Bureau of Educational and Cultural Affairs	1	\$67,084
<b>TOTAL Federal Sources</b>	<b>16</b>	<b>\$4,632,979</b>

**STATE, PRIVATE, CORPORATE, OTHER External Funding by**

State Funding [other than general appropriation]	2	\$21,706
State of Mississippi Agencies	9	\$25,650
Private/Corporate Business and Industry	6	\$145,715
Foundations and Non-Profit Groups	19	\$1,958,371
Other State Governments	0	\$-
Other In-State Universities	2	\$15,000
Other Out-of-State Universities	0	\$-
Local Governments	1	\$20,968
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>39</b>	<b>\$2,187,410</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>55</b>	<b>\$6,820,389</b>
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**Jackson State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2014 - June 30, 2015**

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

**Dr. Loretta A. Moore, Vice President for Research and Federal Relations**  
**Phone number: 601-979-0552**

I. Funding Distribution - College/Division	Number of Projects	Amount
College of Business	1	\$132,692
College of Education & Human Development	11	\$999,683
College of Liberal Arts	11	\$772,221
College of Public Service	18	\$3,456,533
College of Science, Engineering & Technology	80	\$14,206,383
Division of Academic Affairs	6	\$624,131
Division of Business Finance	1	\$129,225
Division of Information Technology	1	\$1,500,000
Division of Institutional Advancement	3	\$585,263
Division of Research and Federal Relations	2	\$776,694
Office of the President	2	\$6,283,804
<b>TOTAL</b>	<b>136</b>	<b>\$29,466,629</b>
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	5	\$147,380
National Institutes of Health	31	\$9,891,413
National Science Foundation	24	\$4,896,526
Nuclear Regulatory Commission	2	\$289,726
U.S. Department of Commerce	3	\$438,737
U.S. Department of Defense	19	\$2,870,088
U.S. Department of Education	6	\$6,925,706
U.S. Department of Health and Human Services	1	\$299,319
U.S. Department of Homeland Security	2	\$839,000
U.S. Department of Transportation	9	\$429,500
U.S. Small Business Administration	1	\$132,692
<b>TOTAL Federal Sources</b>	<b>103</b>	<b>\$27,160,087</b>
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	20	\$1,122,700
Private/Corporate Business and Industry	4	\$336,397
Foundations and Non-Profit Groups	8	\$827,445
Other State Governments	1	\$20,000
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	\$-
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>33</b>	<b>\$2,306,542</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>136</b>	<b>\$29,466,629</b>

**Mississippi State University  
Annual Report on Research and Sponsored Programs  
July 1, 2014 - June 30, 2015**

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

**Dr. David Shaw, 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	160	\$24,274,768
College of Architecture, Art, and Design	9	\$293,312
College of Arts and Sciences	49	\$4,764,257
College of Business	8	\$751,495
College of Education	66	\$4,318,509
College of Forest Resources/Forest Wildlife Research Center	163	\$7,625,809
College of Veterinary Medicine	32	\$3,883,606
Division of Student Affairs	9	\$366,825
Mitchell Memorial Library	3	\$51,350
MS Agricultural and Forestry Experiment Station / CALS	410	\$16,582,633
MS State University Extension Service	253	\$42,534,912
Office of Graduate Studies	3	\$126,497
University Branch Campus (Meridian)	6	\$240,094
University Centers and Institutes	181	\$59,631,313
Vice President for Research and Economic Development	15	\$1,833,879
Vice President for Campus Services	1	\$264,000
<b>TOTAL</b>	<b>1,368</b>	<b>167,543,258</b>

II. Funding Sources	Number of Projects	Amount
FEDERAL External Funding by Agency/Department		
Defense Advanced Research Projects Agency	2	\$7,500
Embassy of the United States of America, Baghdad, Iraq	1	\$161,922
Missile Defense Agency (MDA)	1	\$4,129
National Aeronautics and Space Administration	21	\$1,479,367
National Endowment for the Arts	7	\$36,893
National Endowment for the Humanities	1	\$3,500
National Highway Traffic Safety Administration	4	\$966,327
National Institutes of Health	26	\$5,366,997
National Institute of Justice	1	\$843,376
National Institute for Occupational Safety & Health	1	\$67,455
National Science Foundation	33	\$8,489,761
NAVAIR SYSCOM	4	\$581,093
National Security Agency	10	\$5,769,480
Office of Juvenile Justice and Delinquency Prevention	2	\$96,547
Office of Naval Research (ONR)	6	\$1,033,998
Substance Abuse and Mental Health Services Administration	2	\$202,683
United Sorghum Checkoff Program	2	\$37,000
U.S. Agency for International Development	11	\$1,094,857
U.S. Army	8	\$565,468
U.S. Army Corps of Engineers	27	\$8,295,247
U.S. Department of Agriculture	208	\$38,133,174
U.S. Department of Commerce	53	\$9,378,192
U.S. Department of Defense	42	\$4,779,323
U.S. Department of Education	57	\$4,483,565
U.S. Department of Energy	28	\$11,004,112
U.S. Department of Health and Human Services	23	\$17,118,125

**Mississippi State University  
Annual Report on Research and Sponsored Programs  
July 1, 2014 - June 30, 2015**

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

**Dr. David Shaw, Vice President for Research and Economic Development  
Phone number: 662-325-3570**

II. Funding Sources	Number of Projects	Amount
FEDERAL External Funding by Agency/Department Continued		
U.S. Department of Homeland Security	8	\$142,391
U.S. Department of Housing and Urban Development	1	\$76,300
U.S. Department of Interior	35	\$2,241,919
U.S. Department of Justice	1	\$69,958
U.S. Department of Labor	6	\$4,696,867
U.S. Department of State	1	\$147,000
U.S. Department of Transportation	11	\$482,573
U.S. Department of Veterans Affairs	4	\$55,500
U.S. Economic Development Administration	1	\$128,592
U.S. Environmental Protection Agency	4	\$92,000
U.S. Food and Drug Administration	4	\$381,481
<u>U.S. Small Business Administration</u>	<u>5</u>	<u>\$407,903</u>
TOTAL Federal Sources	662	\$128,922,576
	Number of Projects	Amount
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	60	\$22,224,965
Private/Corporate Business and Industry	417	\$7,638,298
Foundations and Non-Profit Groups	200	\$7,593,819
Other State Governments	3	\$271,051
Other In-State Universities	1	\$20,000
Other Out-of-State Universities	11	\$484,361
Local Governments	5	\$121,423
Foreign Governments & Organizations	9	\$266,765
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$-</u>
TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources	706	\$38,620,682
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>1,368</b>	<b>\$167,543,258</b>

**Mississippi University for Women  
Annual Report on Research and Sponsored Programs  
July 1, 2014 - June 30, 2015**

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

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

I. Funding Distribution - College/Division	Number of Projects	Amount
Academic Support*	2	\$4,535,000
Center for Creative Learning	1	\$400,000
Center for Outreach and Innovation	1	\$30,000
College of Arts and Sciences	2	\$60,000
College of Business & Professional Studies	1	\$600,000
College of Education and Human Sciences	2	\$91,500
*Includes total for Mississippi School for Math and Science		\$4,495,000
<b>TOTAL</b>	<b>9</b>	<b>\$5,716,500</b>

II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Aeronautics and Space Administration	1	\$10,000
National Institutes of Health	1	\$50,000
U.S. Department of Agriculture	1	\$30,000
<u>U.S. Department of Education</u>	<u>1</u>	<u>\$90,000</u>
<b>TOTAL Federal Sources</b>	<b>4</b>	<b>\$180,000</b>
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	1	\$4,495,000
State of Mississippi Agencies	1	\$40,000
Private/Corporate Business and Industry	0	\$-
Foundations and Non-Profit Groups	2	\$601,500
Other State Governments	1	\$400,000
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>
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>5</b>	<b>\$5,536,500</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>9</b>	<b>\$5,716,500</b>

**Mississippi Valley State University**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2014 - June 30, 2015**

**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
Athletics Administration	1	\$300,000
Department of English and Foreign Languages	1	\$10,000
Department of Mathematics and Computer Information Sciences	2	\$195,840
Department of Natural Sciences and Environmental Health	5	\$677,794
Department of Teacher Education	2	\$101,100
Division of Academic Affairs	4	\$69,026
Division of Student Affairs	4	\$1,063,890
Office of the Chief Operating Officer	3	\$678,179
Title III Strengthening Institutions Program	2	\$3,197,600
University College	1	\$257,020
<b>TOTAL</b>	<b>25</b>	<b>\$6,550,449</b>
II. Funding Sources		
FEDERAL External Funding by Agency/Department		
National Science Foundation	1	\$185,840
U.S. Department of Agriculture	2	\$56,912
U.S. Department of Education	6	\$4,975,010
U.S. Environmental Protection Agency	1	\$14,965
<b>TOTAL Federal Sources</b>	<b>10</b>	<b>\$5,232,727</b>
STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	5	\$673,740
Private/Corporate Business and Industry	1	\$145,500
Foundations and Non-Profit Groups	4	\$400,500
Other State Governments	0	\$-
Other In-State Universities	4	\$87,982
Other Out-of-State Universities	1	\$10,000
Local Governments	0	\$-
Foreign Governments & Organizations	0	\$-
Other [all other sources not listed above]	0	\$-
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>15</b>	<b>\$1,317,722</b>
<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>25</b>	<b>\$6,550,449</b>



**University of Mississippi  
Annual Report on Research and Sponsored Programs  
July 1, 2014 - June 30, 2015**

**Dr. Morris H. Stocks, Interim Chancellor  
Phone number: 662-915-1100**

**Dr. Alice M. Clark, Vice Chancellor for Research and Sponsored Programs  
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: 601-815-5000**

I. Funding Distribution - College/Division	Number of Projects	Amount
A. Oxford Campus		
Barksdale Reading Institute	1	\$3,000,000
College of Liberal Arts	76	\$9,137,546
Division of Outreach and Continuing Education	5	\$344,246
Honors College	1	\$258,576
Office of the Chancellor	1	\$252,000
Office of the Provost	6	\$681,367
Office of the Vice Chancellor for Research	36	\$7,191,622
Office of the Vice Chancellor for Student Affairs	3	\$9,000
School of Applied Sciences	13	\$11,542,644
School of Business Administration	4	\$1,398,256
School of Education	28	\$8,229,063
School of Engineering	33	\$3,193,400
School of Law	16	\$1,141,150
<u>School of Pharmacy</u>	<u>48</u>	<u>\$15,931,678</u>
Total Oxford	271	\$62,310,548
B. Medical Center		
Office of Academic Affairs	6	\$86,099
Office of the Vice Chancellor for Health Affairs	2	\$610,758
School of Dentistry	8	\$481,884
School of Medicine	250	\$49,292,599
School of Nursing	5	\$531,434
<u>UMMC Hospital Administration</u>	<u>4</u>	<u>\$826,508</u>
Total Medical Center	275	\$51,829,282
<b>TOTAL (UM + UMMC)</b>	<b>546</b>	<b>\$114,139,830</b>

**University of Mississippi  
Annual Report on Research and Sponsored Programs  
July 1, 2014 - June 30, 2015**

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Phone number: 662-915-1100**

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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: 601-815-5000**

**II. Funding Sources**

**FEDERAL External Funding by Agency/Department**

Corporation for National & Community Service	1	\$25,000
Health Resource and Services Association	25	\$3,779,840
National Aeronautics and Space Administration	9	\$2,146,725
National Endowment for the Humanities	1	\$2,000
National Institutes of Health	126	\$37,758,373
National Science Foundation	12	\$817,276
U.S. Department of Agriculture	21	\$19,838,837
U.S. Department of Commerce	2	\$375,000
U.S. Department of Defense	20	\$1,886,599
U.S. Department of Education	7	\$869,978
U.S. Department of Energy	11	\$1,049,959
U.S. Department of Health and Human Services	14	\$6,508,183
U.S. Department of Interior	3	\$118,581
U.S. Department of Transportation	1	\$91,835
U.S. Department of Veterans Affairs	1	\$30,000
U.S. Environmental Protection Agency	1	\$256,276
U.S. Small Business Administration	2	\$1,021,506
UT-Battelle	1	\$102,434
<u>Vietnam Education Foundation</u>	<u>1</u>	<u>\$56,500</u>
<b>TOTAL Federal Sources</b>	<b>259</b>	<b>\$76,734,902</b>

**STATE, PRIVATE, CORPORATE, OTHER External Funding by**

State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	32	\$6,902,759
Private/Corporate Business and Industry	78	\$8,155,610
Foundations and Non-Profit Groups	123	\$19,484,446
Other State Governments	3	\$69,940
Other In-State Universities	27	\$1,766,172
Other Out-of-State Universities	20	\$817,201
Local Governments	0	\$-
Foreign Governments & Organizations	4	\$208,800
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$-</u>
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>287</b>	<b>\$37,404,928</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>546</b>	<b>\$114,139,830</b>
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**University of Southern Mississippi**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2014 - June 30, 2015**

**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	16	\$1,037,057
College of Business	1	\$40,000
College of Education and Psychology	38	\$7,552,185
College of Health	31	\$6,489,809
College of Nursing	5	\$1,701,351
College of Science and Technology	116	\$42,827,102
Office of Student Affairs	4	\$670,177
Office of the Provost	3	\$262,587
Office of the Vice President for Research	50	\$12,395,779
<b>Total</b>	<b>264</b>	<b>\$72,976,047</b>

II. Funding Sources	Number of Projects	Amount
Federal Funding Source		
Corporation for National & Community Service	3	\$669,103
National Aeronautics and Space Administration	7	\$1,287,759
National Endowment for the Humanities	6	\$9,299
National Science Foundation	19	\$6,761,317
U.S. Department of Agriculture	5	\$1,218,263
U.S. Department of Commerce	17	\$6,978,009
U.S. Department of Defense	12	\$6,475,163
U.S. Department of Education	25	\$9,831,434
U.S. Department of Energy	1	\$21,000
U.S. Department of Health and Human Services	28	\$9,120,454
U.S. Department of Homeland Security	2	\$621,668
U.S. Department of Housing and Urban Development	6	\$1,408,898
U.S. Department of Interior	4	\$418,720
U.S. Department of Justice	0	\$45,447
U.S. Department of Transportation	5	\$320,089
U.S. Environmental Protection Agency	9	\$696,146
<u>U.S. Small Business Administration</u>	<u>2</u>	<u>\$553,741</u>
<b>TOTAL Federal Sources</b>	<b>151</b>	<b>\$46,436,510</b>

STATE, PRIVATE, CORPORATE, OTHER External Funding by		
State Funding [other than general appropriation]	0	\$-
State of Mississippi Agencies	39	\$5,802,416
Private/Corporate Business and Industry	27	\$18,495,018
Foundations and Non-Profit Groups	45	\$1,902,476
Other State Governments	0	\$-
Other In-State Universities	1	\$178,200
Other Out-of-State Universities	0	\$-
Local Governments	0	\$-
Foreign Governments & Organizations	1	\$134,641
<u>Other [all other sources not listed above]</u>	<u>0</u>	<u>\$26,786</u>
<b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</b>	<b>113</b>	<b>\$26,539,537</b>

<b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>	<b>264</b>	<b>\$72,976,047</b>
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## 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.