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# *Research Catalog*



**November 2009**

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# *Research Catalog*

*Prepared by*

**Board of Trustees of State Institutions of Higher Learning  
Office of Research and Planning  
3825 Ridgewood Road  
Jackson, MS 39211  
Phone: (601) 432-6742 Fax: (601) 432-6117  
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## PREFACE

### FY 2009 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 the Institutions of Higher Learning Office of Policy Research and Planning at 601-432-6742.

To view the *Research Catalog* online and to download additional copies, visit the web site at <http://www.mississippi.edu/research/stats.html>.

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## TABLE OF CONTENTS

Preface.....	i
Board of Trustees.....	ii
Institutional Executive Officers .....	iii
Table of Contents.....	iv
System Summary.....	1
System History .....	2
System Trend of Federal Funding.....	3
Federal Funding in Descending Order .....	4
Alcorn State University .....	6
Delta State University.....	7
Jackson State University .....	8
Mississippi State University .....	10
Mississippi University for Women .....	12
Mississippi Valley State University .....	13
University of Mississippi with the University of Mississippi Medical Center.....	14
University of Southern Mississippi .....	16
<hr/>	
UNIVERSITY RESEARCH GROUPS .....	19
Mississippi University Research Authority (MURA).....	20
Mississippi Research Consortium (MRC).....	21
Mississippi Education and Research Group (MERG).....	22

# MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

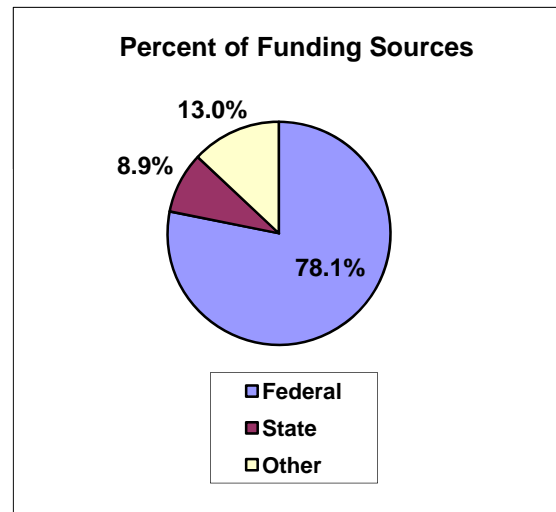
## FY 2009 Research Catalog - IHL System Summary

Dr. Hank M. Bounds, Commissioner

Period Covered: July 1, 2008 - June 30, 2009

University	Federal	State	Private/ Corporate/Other	Total Funding Awarded
ASU	\$24,380,778	\$196,976	\$1,921,632	\$26,499,386
DSU	7,752,703	1,798,029	3,712,390	\$13,263,122
JSU	60,676,697	3,011,375	2,391,826	\$66,079,898
MSU	94,752,095	24,749,899	26,480,723	\$145,982,717
MUW*	1,082,339	156,167	5,898,610	\$7,137,115
MVSU	10,654,938	1,387,916	332,106	\$12,374,960
UM/UMMC	121,577,957	5,576,149	16,701,622	\$143,855,728
USM	61,180,715	6,470,200	6,093,727	\$73,744,642
<b>SYSTEM</b>	<b>\$382,058,222</b>	<b>\$43,346,711</b>	<b>\$63,532,636</b>	<b>\$488,937,568</b>

University	Total Research Projects Supported
ASU	101
DSU	76
JSU	189
MSU	1,177
MUW*	33
MVSU	44
UM/UMMC	527
USM	364
<b>SYSTEM</b>	<b>2,511</b>



**NOTE:**

\* MUW figures include 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 2005	FY 2006	FY 2007	FY 2008	FY 2009
ASU	\$21,999,143	\$24,372,640	\$22,276,206	\$24,563,364	\$26,499,386
DSU	6,803,026	6,858,729	9,446,711	10,176,004	13,263,122
JSU	49,151,264	56,040,700	66,732,582	58,686,784	66,079,898
MSU	127,943,563	154,744,232	186,509,706	151,426,449	145,982,717
MUW*	6,715,242	7,564,958	7,586,371	7,125,046	7,137,115
MVSU	11,102,780	10,295,321	8,914,390	9,640,678	12,374,960
UM	67,986,974	63,641,569	77,939,971	60,494,424	82,988,530
UMMC	46,221,934	39,254,134	50,033,002	39,703,476	60,867,198
USM	71,379,786	102,095,604	98,616,597	90,578,506	73,744,642
<b>SYSTEM</b>	<b>\$409,303,712</b>	<b>\$464,867,887</b>	<b>\$528,055,536</b>	<b>\$452,394,730</b>	<b>\$488,937,568</b>

### Percent Change in Total External Funding

University	FY 2005 to FY 2006	FY 2006 to FY 2007	FY 2007 to FY 2008	FY 2008 to FY 2009
ASU	10.8%	-8.6%	10.3%	7.9%
DSU	0.8%	37.7%	7.7%	30.3%
JSU	14.0%	19.1%	-12.1%	12.6%
MSU	20.9%	20.5%	-18.8%	-3.6%
MUW*	12.7%	0.3%	-6.1%	0.2%
MVSU	-7.3%	-13.4%	8.1%	28.4%
UM	-6.4%	22.5%	-22.4%	37.2%
UMMC	-15.1%	27.5%	-20.6%	53.3%
USM	43.0%	-3.4%	-8.2%	-18.6%
<b>SYSTEM</b>	<b>13.6%</b>	<b>13.6%</b>	<b>-14.3%</b>	<b>8.1%</b>

### Percent Change in Total Projects Supported

Fiscal Year	# of Projects	% Change
FY 2005	2,975	
FY 2006	3,586	20.5%
FY 2007	3,056	-14.8%
FY 2008	2,627	-14.0%
FY 2009	2,511	-4.4%

NOTE: \* MUW figures include the Mississippi School for Math and Science.



**FY 2009 Research and Sponsored Programs**

**System Trend of Federal External Funding**

<b>Funding Source</b>	<b>2007 Total</b>	<b>2008 Total</b>	<b>2009 Total</b>	<b>2008-09 % Change</b>	<b>2007-09 % Change</b>
Appalachian Regional Commission			847,136		
Corporation for National & Community Service	1,138,552	1,069,286	1,707,619	59.7%	50.0%
Corporation for Public Broadcasting			14,738		
Federal Reserve Bank			342,553		
Federal Trade Commission			4,000		
Health Resource and Services Association	1,000,000		16,541,843		1554.2%
Institute of Museum and Library Sciences	36,855	1,718,746	429,388	-75.0%	1065.1%
Library of Congress			124,688		
Los Alamos National Lab			32,226		
National Aeronautics and Space Administration	24,601,251	4,538,839	9,880,875	117.7%	-59.8%
National Endowment for the Arts	10,000	9,000	257,176	2757.5%	2471.8%
National Endowment for the Humanities	471,187	147,221	189,509	28.7%	-59.8%
National Foreign Language Center			99,786		
National Institutes of Health	14,534,110	15,061,650	38,953,456	158.6%	168.0%
National Library of Medicine		5,215		-100.0%	
National Science Foundation	25,032,579	25,856,872	23,955,124	-7.4%	-4.3%
National Security Agency	273,599	277,843	343,308	23.6%	25.5%
SAMSHA			10,000		
Tennessee Valley Authority			34,929		
U.S. Agency of International Development	14,621,064	1,098,220	2,406,405	119.1%	-83.5%
U.S. Department of Agriculture	46,111,669	45,752,546	41,816,024	-8.6%	-9.3%
U.S. Department of Commerce	32,774,850	33,805,962	48,705,197	44.1%	48.6%
U.S. Department of Defense	63,866,693	72,063,902	46,092,267	-36.0%	-27.8%
U.S. Department of Education	37,808,282	33,134,090	33,103,472	-0.1%	-12.4%
U.S. Department of Energy	14,982,685	15,471,525	27,068,394	75.0%	80.7%
U.S. Department of Health and Human Services	56,736,716	60,656,815	34,943,172	-42.4%	-38.4%
U.S. Department of Homeland Security	2,918,351	4,222,992	14,540,776	244.3%	398.3%
U.S. Department of Housing and Urban Development	17,014,001	507,004	2,469,062	387.0%	-85.5%
U.S. Department of Interior	2,257,868	2,645,771	3,243,043	22.6%	43.6%
U.S. Department of Justice	11,530,343	4,396,227	9,670,040	120.0%	-16.1%
U.S. Department of Labor	1,065,000	559,000	1,776,272	217.8%	66.8%
U.S. Department of State			35,450		
U.S. Department of State Bureau of Educ & Cultural Affairs	2,393,120	4,831,160	3,422,201	-29.2%	43.0%
U.S. Department of Transportation	5,916,340	3,795,463	10,177,221	168.1%	72.0%
U.S. Department of Veterans Affairs	47,099				-100.0%
U.S. Geological Survey		578,978		-100.0%	
U.S. Environmental Protection Agency	917,736	1,360,912	1,198,249	-12.0%	30.6%
U.S. Nuclear and Regulatory Commission		200,000	236,869	18.4%	
U.S. Small Business Administration	10,282,285	1,319,916	6,404,979	385.3%	-37.7%
United Negro College Fund	170,000				-100.0%
Workforce Investment Act		990,406	752,912	-24.0%	
Other Federal	6,054,086	7,293,386	227,862	-96.9%	-96.2%
<b>Total</b>	<b>\$394,566,321</b>	<b>\$343,368,947</b>	<b>\$382,058,222</b>	<b>11.3%</b>	<b>-3.2%</b>

**FY 2009 Research and Sponsored Programs**

**Summary of Federal External Funding by Funding Source in  
Descending Order based on FY 2009 Amounts**

<b>Funding Source</b>	<b>ASU</b>	<b>DSU</b>	<b>JSU</b>	<b>MSU</b>	<b>MUW</b>
U.S. Department of Commerce	205,601		2,553,449	22,036,968	
U.S. Department of Defense	2,894,981	9,000	7,420,896	11,949,409	
U.S. Department of Agriculture	11,937,424		201,240	15,613,636	
National Institutes of Health	321,993		11,281,583	1,663,413	266,855
U.S. Department of Health and Human Services	244,928	225,000	1,979,544	674,346	40,308
U.S. Department of Education	3,991,753	1,329,361	10,602,523	3,150,801	194,428
U.S. Department of Energy				24,130,985	
National Science Foundation		29,697	8,225,125	4,404,709	
Health Resource and Services Association		2,753,701			
U.S. Department of Homeland Security	1,149,208	80,380	4,086,774	559,531	
U.S. Department of Transportation		950,000	6,800,728	1,365,000	15,174
National Aeronautics and Space Administration	8,000	10,500	283,510	1,037,718	
U.S. Department of Justice	1,520,392	100,000	1,300,000	2,414,740	
U.S. Small Business Administration	987,228	73,068	142,680	1,050,000	296,559
U.S. Department of State Bureau of Educ & Cultural Affairs			3,422,201		
U.S. Department of Interior	15,120	243,327		942,199	
U.S. Department of Housing and Urban Development	894,150			779,917	269,015
U.S. Agency of International Development			2,206,864		
Other Federal	10,000			1,076,095	
U.S. Department of Labor				1,154,780	
Corporation for National & Community Service		1,035,782			
U.S. Environmental Protection Agency			20,999	344,540	
Workforce Investment Act		752,912			
Institute of Museum and Library Sciences					
National Security Agency				343,308	
National Endowment for the Arts		10,000	148,581	60,000	
Nuclear Regulatory Commission	200,000				
National Endowment for the Humanities		149,975			
<b>Total</b>	<b>\$24,380,778</b>	<b>\$7,752,703</b>	<b>\$60,676,697</b>	<b>\$94,752,095</b>	<b>\$1,082,339</b>

**Summary of Federal External Funding by Funding Source in  
Descending Order based on FY 2009 Amounts**

<b>Funding Source</b>	<b>MVSU</b>	<b>UM/UMMC</b>	<b>USM</b>	<b>2009 Total</b>
U.S. Department of Commerce		13,361,466	10,547,713	48,705,197
U.S. Department of Defense		12,484,934	11,333,047	46,092,267
U.S. Department of Agriculture	987,539	10,743,323	2,332,862	41,816,024
National Institutes of Health	1,500,875	23,918,738		38,953,456
U.S. Department of Health and Human Services	17,238	23,159,136	8,602,672	34,943,172
U.S. Department of Education	6,441,614	3,307,672	4,085,320	33,103,472
U.S. Department of Energy		1,997,001	940,408	27,068,394
National Science Foundation	1,336,810	2,267,919	7,690,864	23,955,124
Health Resource and Services Association		13,788,142		16,541,843
U.S. Department of Homeland Security		4,012,750	4,652,133	14,540,776
U.S. Department of Transportation			1,046,319	10,177,221
National Aeronautics and Space Administration		4,601,485	3,939,662	9,880,875
U.S. Department of Justice		2,964,741	1,370,167	9,670,040
U.S. Small Business Administration		3,458,444	397,000	6,404,979
U.S. Department of State Bureau of Educ & Cultural Affairs				3,422,201
U.S. Department of Interior		861,573	1,180,824	3,243,043
U.S. Department of Housing and Urban Development			525,980	2,469,062
U.S. Agency of International Development				2,206,864
Other Federal	227,862	645,633	50,188	2,009,778
U.S. Department of Labor	143,000		478,492	1,776,272
Corporation for National & Community Service			671,837	1,707,619
U.S. Environmental Protection Agency			832,710	1,198,249
Workforce Investment Act				752,912
Institute of Museum and Library Sciences			429,388	429,388
National Security Agency				343,308
National Endowment for the Arts		5,000	33,595	257,176
Nuclear Regulatory Commission				200,000
National Endowment for the Humanities			39,534	189,509
<b>Total</b>		<b>\$10,654,938</b>	<b>\$121,577,957</b>	<b>\$61,180,715</b>
				<b>\$382,058,222</b>

**ALCORN STATE UNIVERSITY**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2008 - June 30, 2009**

**Dr. George Ross - President**  
**Dr. Samuel L. White - Director of the Office of Sponsored Programs**  
**Phone (601) 877-6117**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of</u> <u>Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
Office of Community Development	6	\$1,698,610	
School of Agriculture, Research, Extension, and Applied Sci	58	17,286,123	
School of Arts and Sciences	22	2,891,923	
School of Education and Psychology	4	\$648,616	
School of General College of Excellence	5	\$674,431	
School of Nursing	5	\$142,559	
Title III Strengthening Institutional Programs	1	\$3,157,124	
<b>GRAND TOTAL</b>	<b>101</b>		<b>\$26,499,386</b>

<b>II. <u>Funding Sources</u></b>	<b><u>Number of</u> <u>Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>Federal</b>			
National Aeronautics and Space Administration	1	8,000	
National Institutes of Health	3	321,993	
Nuclear Regulatory Commission	1	200,000	
SAMSHA	1	10,000	
U.S. Department of Agriculture	46	11,937,424	
U.S. Department of Commerce	4	205,601	
U.S. Department of Defense	4	2,894,981	
U.S. Department of Education	5	3,991,753	
U.S. Department of Health and Human Services	3	244,928	
U.S. Department of Homeland Security	6	1,149,208	
U.S. Department of Housing and Urban Development	1	894,150	
U.S. Department of Interior	1	15,120	
U.S. Department of Justice	1	1,520,392	
U.S. Small Business Administration	1	987,228	
<b>Total Federal Sources</b>	<b>78</b>		<b>\$24,380,778</b>
<b>State, Private, Corporate, and Other Sources</b>			
Total State of Mississippi Agencies	6	196,976	
Total Private/Corporate Business and Industry	2	30,501	
Total Foundations and Non-Profit Groups	6	188,561	
Total Other State Governments	7	1,610,965	
Total Other In-State Universities	1	41,605	
Total Other Out-of-State Universities	1	50,000	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>23</b>		<b>\$2,118,608</b>
<b>GRAND TOTAL</b>	<b>101</b>		<b>\$26,499,386</b>

**DELTA STATE UNIVERSITY**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2008 - June 30, 2009**

**Dr. John Hilpert - President**  
**Robin Boyles - Director of the Office of Institutional Grants**  
**Phone (662) 846-4804**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
Archives/Library	1	\$3,850	
Athletics	1	1,317,500	
Center for Community and Economic Development	8	1,653,290	
College of Arts and Sciences	34	4,478,402	
College of Business	3	261,128	
College of Education	14	2,842,938	
Delta Center for Culture and Learning	7	469,021	
President's Office	1	50,000	
School of Nursing	5	1,353,701	
Student Affairs	1	80,380	
Student Business Services	1	752,912	
<b>GRAND TOTAL</b>	<b>76</b>		<b>\$13,263,122</b>

<b>II. <u>Funding Sources</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>Federal</b>			
Corporation for National & Community Service	4	\$1,035,782	
Health Resource and Services Association	6	2,753,701	
National Aeronautics and Space Administration	2	10,500	
National Endowment for the Arts	1	10,000	
National Endowment for the Humanities	1	149,975	
National Science Foundation	1	29,697	
U.S. Department of Defense	1	9,000	
U.S. Department of Education	7	1,329,361	
U.S. Department of Health and Human Services	1	225,000	
U.S. Department of Homeland Security	1	80,380	
U.S. Department of Interior	2	243,327	
U.S. Department of Justice	1	100,000	
U.S. Department of Transportation	1	950,000	
U.S. Small Business Administration	1	73,068	
Workforce Investment Act	1	752,912	
<b>Total Federal Sources</b>	<b>31</b>		<b>\$7,752,703</b>
<b>State, Private, Corporate, and Other Sources</b>			
Total State Funding (excluding general appropriation)	2	\$1,725,610	
Total State of Mississippi Agencies	5	72,419	
Total Private/Corporate Business and Industry	8	965,250	
Total Foundations and Non-Profit Groups	19	2,197,120	
Total Other In-State Universities	2	33,000	
Total Other Out-of-State Universities	1	30,000	
Total Local Governments	8	487,020	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>45</b>		<b>\$5,510,419</b>
<b>GRAND TOTAL</b>	<b>76</b>		<b>\$13,263,122</b>

**JACKSON STATE UNIVERSITY**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2008- June 30, 2009**

**Dr. Ronald Mason, Jr. - President**  
**Dr. Felix A. Okojie - Vice President of Research and Federal Relations**  
**Phone (601) 979-2931**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of</u></b>	<b><u>Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
College of Business	2		143,430	
College of Education & Human Development	3		696,378	
College of Liberal Arts	11		907,985	
College of Public Service	22		2,060,567	
College of Science, Engineering & Technology	80		28,559,800	
Division International Studies	21		6,826,069	
Division of Lifelong Learning	7		738,326	
Office of Academic Affairs	7		994,229	
Office of Finance & Operations	5		9,486,871	
Office of the President	7		1,676,625	
Office of Research Development & Federal Relations	24		13,989,618	
<b>GRAND TOTAL</b>	<b>189</b>			<b>\$66,079,898</b>

<b>II. <u>Funding Sources</u></b>	<b><u>Number of</u></b>	<b><u>Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>Federal</b>				
National Aeronautics and Space Administration	5		\$283,510	
National Endowment for the Arts	1		148,581	
National Institutes of Health	24		11,281,583	
National Science Foundation	25		8,225,125	
U.S. Agency of International Development	3		2,206,864	
U.S. Department of Agriculture	1		201,240	
U.S. Department of Commerce	12		2,553,449	
U.S. Department of Defense	14		7,420,896	
U.S. Department of Education	10		10,602,523	
U.S. Department of Health and Human Services	17		1,979,544	
U.S. Department of Homeland Security	9		4,086,774	
U.S. Department of Justice	2		1,300,000	
U.S. Department of State Bureau of Educational and Cultural Affairs	4		3,422,201	
U.S. Department of Transportation	8		6,800,728	
U.S. Environmental Protection Agency	1		20,999	
U.S. Small Business Administration	1		142,680	
<b>Total Federal Sources</b>	<b>137</b>			<b>\$60,676,697</b>

<u>Funding Sources</u>	<u>Number of Projects</u>	<u>Amount</u>	<u>Total</u>
<b>State, Private, Corporate, and Other Sources</b>			
Total State of Mississippi Agencies	30	\$2,391,826	
Total Private/Corporate Business and Industry	8	564,391	
Total Foundations and Non-Profit Groups	14	2,446,984	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>52</b>		<b>\$5,403,201</b>
<b>GRAND TOTAL</b>	<b>189</b>		<b>\$66,079,898</b>

**MISSISSIPPI STATE UNIVERSITY**

**Annual Report on Research and Sponsored Programs**

**Dr. Mark E. Keenum - President**

**Dr. W. Glenn Steele - Interim Vice President for Research and Economic Development**

**Phone: (662)325-3570**

**Dr. Gregory A. Bahach - Vice President for Agriculture, Forestry, and Veterinary Medicine**

**Phone: (662) 325-1215**

**July 1, 2008 - June 30, 2009**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
Bagley College of Engineering	172	\$46,974,435	
College of Architecture, Art, and Design	12	1,349,118	
College of Arts and Sciences	42	2,932,792	
College of Business	3	451,235	
College of Education	104	11,593,835	
College of Forest Resources/Forest Wildlife Research Center	129	6,443,952	
College of Veterinary Medicine	24	2,155,371	
Division of Academic Outreach & Continuing Education	1	957,967	
Division of Student Affairs	7	382,942	
Mitchell Memorial Library	1	1,800	
MS Agricultural and Forestry Experiment Station (MAFES)/CALs	272	15,397,201	
MS State University Extension Service (MSU ES)	257	12,984,277	
Office of Graduate Studies	3	329,231	
University Branch Campus (Meridian)	6	134,370	
University Centers and Institutes	135	35,306,642	
Vice President for Finance and Administration	4	423,380	
Vice President for Research and Economic Development	5	8,164,169	
<b>GRAND TOTAL</b>	<b>1,177</b>	<b>\$145,982,717</b>	

<b>II. <u>Funding Sources</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>Federal</b>			
Appalachian Regional Commission	3	\$698,613	
Federal Reserve Bank	1	342,553	
National Aeronautics and Space Administration	9	1,037,718	
National Endowment for the Arts	2	60,000	
National Institutes of Health	9	1,663,413	
National Science Foundation	21	4,404,709	
National Security Agency	2	343,308	
Tennessee Valley Authority	2	34,929	
U.S. Department of Agriculture	81	15,613,636	
U.S. Department of Commerce	13	22,036,968	
U.S. Department of Defense	62	11,949,409	



U.S. Department of Education	10	3,150,801
U.S. Department of Energy	24	24,130,985

MSU page 2 FY 2009 Research Catalog

<b>II. <u>Funding Sources</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
U.S. Department of Health and Human Services	6	674,346	
U.S. Department of Homeland Security	1	559,531	
U.S. Department of Housing and Urban Development	2	779,917	
U.S. Department of Interior	17	942,199	
U.S. Department of Justice	2	2,414,740	
U.S. Department of Labor	4	1,154,780	
U.S. Department of Transportation	3	1,365,000	
U.S. Environmental Protection Agency	1	344,540	
U.S. Small Business Administration	2	1,050,000	
<b>Total Federal Sources</b>	<b>277</b>		<b>\$94,752,095</b>
<b>State, Private, Corporate, and Other Sources</b>			
Total State of Mississippi Agencies	158	\$24,749,899	
Total Private/Corporate Business and Industry	437	8,820,515	
Total Foundations and Non-Profit Groups	157	10,323,073	
Total Other State Governments	11	554,708	
Total Other In-State Universities	21	1,070,645	
Total Other Out-of-State Universities	63	4,515,557	
Total Local Governments	53	1,196,225	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>900</b>		<b>\$51,230,622</b>
<b>GRAND TOTAL</b>	<b>1,177</b>		<b>\$145,982,717</b>

**MISSISSIPPI UNIVERSITY FOR WOMEN**

**Annual Report on Research and Sponsored Programs**

**Dr. Claudia A. Limbert - President**

**Ms. Nora Miller - Vice President for Finance and Administration**

**Phone (662) 329-7145**

**July 1, 2008 - June 30, 2009**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
Academic Support	3	\$4,832,874	
College of Education and Human Sciences	9	347,770	
College of Nursing	6	352,152	
Department of Sciences & Mathematics	8	941,064	
Other Units	7	663,254	
<b>GRAND TOTAL</b>	<b>33</b>		<b>\$7,137,115</b>

<b>II. <u>Funding Sources</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
National Institutes of Health	2	\$266,855	
U.S. Department of Education	4	194,428	
U.S. Department of Health and Human Services	1	40,308	
U.S. Department of Housing and Urban Development	1	269,015	
U.S. Department of Transportation	1	15,174	
U.S. Small Business Administration	1	296,559	
<b>Total Federal Sources</b>	<b>10</b>		<b>\$1,082,339</b>

**State, Private, Corporate, and Other Sources**

Total State of Mississippi Agencies	7	\$156,167	
Total Private/Corporate Business and Industry	4	259,843	
Total Foundations and Non-Profit Groups	1	50,000	
Total Other State Governments	8	5,526,984	
Total Other In-State Universities	2	59,982	
Total Other Out-of-State Universities	1	1,801	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>23</b>		<b>\$6,054,776</b>

<b>GRAND TOTAL</b>	<b>33</b>		<b>\$7,137,115</b>
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NOTE: Totals include \$4,828,120 for the Mississippi School for Math and Science.

**MISSISSIPPI VALLEY STATE UNIVERSITY**

**Annual Report on Research and Sponsored Programs**

**Dr. Donna Oliver - President**

**Dr. Moses Newsome, Jr. - Vice President for Research, Planning, Community & Econ. Dev.**

**Jannette Adams - Director of Sponsored Programs; Interim Director Title III  
Phone (662) 254-3434**

**July 1, 2008 - June 30, 2009**

<b>I. Funding Distribution - College/Division</b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
College of Arts and Sciences	18	2,282,860	
College of Continuing Education	2	843,269	
College of Education	10	1,580,979	
College of Professional Studies	1	5,000	
College of Public Service	9	2,459,197	
Title III	2	4,319,124	
University College	2	884,531	
<b>GRAND TOTAL</b>	<b>44</b>		<b>\$12,374,960</b>

<b>II. <u>Funding Sources</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>Federal</b>			
National Institutes of Health	5	\$1,500,875	
National Science Foundation	6	1,336,810	
U.S. Department of Agriculture	2	987,539	
U.S. Department of Education	9	6,441,614	
U.S. Department of Health and Human Services	1	17,238	
U.S. Department of Labor	1	143,000	
Other Federal Sources	4	227,862	
<b>Total Federal Sources</b>	<b>28</b>		<b>\$10,654,938</b>
<b>State, Private, Corporate, and Other Sources</b>			
Total State of Mississippi Agencies		1,387,916	
Total Private/Corporate Business and Industry		332,106	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>16</b>		<b>\$1,720,022</b>
<b>GRAND TOTAL</b>	<b>44</b>		<b>\$12,374,960</b>

**UNIVERSITY OF MISSISSIPPI**

**Annual Report on Research and Sponsored Programs**

**Dr. Daniel W. Jones- Chancellor**

**Dr. Alice M. Clark - Vice Chancellor for Research and Sponsored Programs**

**Phone (662) 915-7482**

**Dr. James Keeton - Interim Vice Chancellor for Health Affairs**

**Phone (601) 984-1010**

**July 1, 2008 - June 30, 2009**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>A. Oxford Campus</b>			
College of Liberal Arts	77	\$8,156,599	
Division of Outreach and Continuing Education	9	225,937	
Ford Center for the Performing Arts	1	124,688	
Graduate School	3	1,225,780	
Jamie Whitten National Center for Physical Acoustics	38	12,097,096	
National Center for Computational Hydroscience and Engineering	10	3,589,097	
National Center for Natural Products Research	14	8,694,225	
National Food Service Management Institute	7	4,995,692	
National Institute of Undersea Science Technology	1	2,060,154	
Office of Research and Sponsored Programs	2	185,500	
Physical Plant	2	354,830	
Research Park	2	995,000	
School of Applied Sciences	9	1,766,261	
School of Business Administration	4	2,971,404	
School of Education	15	1,881,791	
School of Engineering (not including NCCHE)	46	9,917,235	
School of Law	11	5,787,767	
School of Pharmacy (not including NCNPR)	36	16,745,530	
University Counseling	1	308,944	
University Libraries	1	155,000	
William Winter Institute for Racial Reconciliation	1	750,000	
<b>Total Oxford</b>	<b>290</b>		<b>\$82,988,530</b>
<b>B. Medical Center</b>			
Office of Strategic Research Alliances	2	\$10,177,161	
School of Dentistry	11	1,441,963	
School of Health Related Professions	5	114,745	
School of Medicine	206	47,209,184	
School of Nursing	12	1,521,436	
Teaching Hospital	1	402,709	
<b>Total Medical Center</b>	<b>237</b>		<b>\$60,867,198</b>
<b>GRAND TOTAL</b>	<b>527</b>		<b>\$143,855,728</b>

<b>II. <u>Funding Sources</u></b> (Oxford and Medical Center combined)	<b><u>Number of</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
	<b><u>Projects</u></b>		
<b>Federal</b>			
Appalachian Regional Commission	1	\$148,523	
Federal Trade Commission	1	4,000	
Health Resource and Services Association	35	13,788,142	
Library of Congress	1	124,688	
Los Alamos National Lab	1	32,226	
National Aeronautics and Space Administration	11	4,601,485	
National Endowment for the Arts	1	5,000	
National Foreign Language Center	1	99,786	
National Institutes of Health	96	23,918,738	
National Science Foundation	10	2,267,919	
U.S. Agency for International Development	1	199,541	
U.S. Department of Agriculture	31	10,743,323	
U.S. Department of Commerce	4	13,361,466	
U.S. Department of Defense	26	12,484,934	
U.S. Department of Education	4	3,307,672	
U.S. Department of Energy	7	1,997,001	
U.S. Department of Health and Human Services	30	23,159,136	
U.S. Department of Homeland Security	7	4,012,750	
U.S. Department of Interior	3	861,573	
U.S. Department of Justice	2	2,964,741	
U.S. Nuclear and Regulatory Commission	1	36,869	
U.S. Small Business Administration	4	3,458,444	
<b>Total Federal Sources</b>	<b>278</b>	<b>\$121,577,957</b>	
<b>State, Private, Corporate, and Other Sources</b>			
Total State of Mississippi Agencies	69	5,576,149	
Total Private/Corporate Business and Industry	74	6,499,607	
Total Foundations and Non-Profit Groups	62	7,468,384	
Total Other State Governments	2	112,092	
Total Other In-State Universities	1	687,154	
Total Other Out-of-State Universities	13	454,966	
Total Local Governments	14	917,759	
Total Foreign Governments & Organizations	13	369,828	
Total Other (all other sources not listed above)	1	191,832	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>249</b>	<b>\$22,277,771</b>	
<b>GRAND TOTAL</b>	<b>527</b>	<b>\$143,855,728</b>	

**UNIVERSITY OF SOUTHERN MISSISSIPPI**

**Annual Report on Research and Sponsored Programs**

**Dr. Martha D. Saunders - President**

**Dr. Cecil Burge - Vice President for Research and Economic Development**

**Phone (601) 266-5116**

**July 1, 2008 - June 30, 2009**

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
	<b><u>Projects</u></b>		
<i><u>College of Arts and Letters</u></i>			
Anthropology and Sociology	6	\$99,181	
Ctr. for Oral History & Cultural Heritage	2	113,034	
Dean's Office	1	11,895	
English	7	201,850	
Foreign Language and Literature	2	85,450	
History	2	21,290	
Political Science, Intl. Development and Intl. Affairs	1	931,712	
School of Mass Communication and Journalism	2	24,738	
School of Music	2	54,900	
Speech Communication	1	36,250	
Theatre and Dance	1	3,800	
<i><u>College of Business</u></i>			
Dean's Office	1	19,983	
Management and Marketing	3	190,972	
<i><u>College of Education and Psychology</u></i>			
Child and Family Studies	10	292,024	
Curriculum, Instruction & Special Education	12	1,586,518	
Dean's Office	2	190,442	
Educational Leadership and Research	3	191,469	
Library Information Science	2	436,428	
Psychology	22	667,872	
<i><u>College of Health</u></i>			
Community Health Sciences	9	2,416,022	
Dean's Office College of Health	0	166,530	
Medical Technology	5	20,400	
Nutrition and Food Systems	2	984,080	
School of Human Performance & Recreation	12	990,979	
School of Nursing	5	328,870	
School of Social Work	8	1,606,342	
Speech and Hearing Science	18	3,639,622	

<b>I. <u>Funding Distribution - College/Division</u></b>	<b><u>Number of</u> <u>Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<i><u>College of Science and Technology</u></i>			
Administration of Justice	3	324,549	
Biological Science	14	2,787,076	
Center For Fisheries and Research Development	10	1,998,023	
Center for Science and Math Education	1	3,000	
Chemistry and Biochemistry	13	4,705,044	
Coastal Sciences	28	4,991,761	
Deans Office	1	231,729	
Economic Development	6	433,956	
Geography and Geology	10	400,754	
J.L. Scott Marine Education Center	7	947,024	
Marine Science	14	5,402,541	
Mathematics	2	400,843	
Mississippi Polymer Institute	0	10,000	
Physics and Astronomy	5	1,284,089	
School of Computing	7	533,791	
School of Construction	7	325,378	
School of Polymers and High Performance Materials	23	13,536,268	
Workplace Learning and Performance	1	478,492	
<i><u>Office of the Provost</u></i>			
Outreach	1	50,000	
Office of the Provost	3	213,727	
<i><u>Student Affairs</u></i>			
Health Services Center	2	15,000	
Southern Miss Student Counseling Services	1	74,110	
University Union	0	19,993	
Vice President of Student Affairs	2	482,584	
<i><u>University Chief Financial Officer</u></i>			
Physical Plant	1	80,381	
<i><u>University Libraries</u></i>			
GCRL Gunter Library	1	3,900	
<i><u>Vice President for Research and Economic Development</u></i>			
Area Health Education Center	2	177,396	
Center for Community and Civic Engagement	5	437,899	
Center for Sports Spectator Security Management	2	809,718	
Center for Sustainable Health Outreach	3	572,440	
CREATEs	4	86,624	
Gulf Coast Geospatial Center	2	240,000	
Institute for Disability Studies	20	3,794,709	
Mississippi Enterprise for Technology	1	2,082,768	
MS-AL Sea Grant Consortium	2	1,953,386	
National Food Service Management Institute	3	1,106,740	
Vice President for Research and Economic Development	16	7,436,296	
<b>GRAND TOTAL</b>	<b>364</b>	<b>\$73,744,642</b>	

<b>II. <u>Funding Sources</u></b>	<b><u>Number of</u> <u>Projects</u></b>	<b><u>Amount</u></b>	<b><u>Total</u></b>
<b>Federal</b>			
Corporation for National & Community Service	5	671,837	
Institute of Museum and Library Sciences	1	429,388	
National Aeronautics and Space Administration	11	3,939,662	
National Endowment for the Arts	5	33,595	
National Endowment for the Humanities	2	39,534	
National Science Foundation	17	7,690,864	
U.S. Department of Agriculture	10	2,332,862	
U.S. Department of Commerce	37	10,547,713	
U.S. Department of Defense	23	11,333,047	
U.S. Department of Education	26	4,085,320	
U.S. Department of Energy	3	940,408	
U.S. Department of Health and Human Services	34	8,602,672	
U.S. Department of Homeland Security	10	4,652,133	
U.S. Department of Housing and Urban Development	5	525,980	
U.S. Department of Interior	14	1,180,824	
U.S. Department of Justice	6	1,370,167	
U.S. Department of Labor	1	478,492	
U.S. Department of Transportation	4	1,046,319	
U.S. Environmental Protection Agency	10	832,710	
U.S. Small Business Administration	3	397,000	
U.S. Department of State	1	35,450	
Corporation for Public Broadcasting	1	14,738	
<b>Total Federal Sources</b>	<b>229</b>		<b>\$61,180,715</b>
<b>State, Private, Corporate, and Other Sources</b>			
Total State of Mississippi Agencies	48	\$6,470,200	
Total Private/Corporate Business and Industry	24	3,283,844	
Total Foundations and Non-Profit Groups	18	1,459,803	
Total Foreign Governments & Organizations	1	20000	
Total Other (all other sources not listed above)	44	1,330,080	
<b>Total State, Private, Corporate, and Other Sources</b>	<b>135</b>		<b>\$12,563,927</b>
<b>GRAND TOTAL</b>	<b>364</b>		<b>\$73,744,642</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.