

F  
Y  
  
2  
0  
1  
9



# RESEARCH CATALOG



OCTOBER 2019

## PREFACE

### FY 2019 RESEARCH CATALOG

The external resources identified in the *Research Catalog* are an indication of the national competitiveness of the universities in the state of Mississippi and of the quality research and sponsored programs they conduct. These resources provide essential funds to the state's public universities which strengthen the research, teaching, and service missions of the universities.

The *Research Catalog* is mandated by the State through the University Research Center Act of 1988 (§ 37-141-17). The publication lists the funding amounts by the sources of funding and by the university disciplines receiving the funding. It is designed for use by state policy makers, the educational community, economic developers, and the general public as a resource to:

1. Assist in developing strong legislative funding support for research,
2. Improve the regional, national, and international image of Mississippi universities as research institutions,
3. Encourage continued and expanded external funding support for state university research and sponsored programs, and
4. Enhance further development of technology transfer and practical applications of research which impact the state's economy.

The *Research Catalog* includes only external awards and non-appropriated state awards for research and sponsored programs. External funds for student financial aid are not included in the totals.

For more specific information about university research programs, contact the designated research official listed for each university. For additional information about the Research Catalog, contact:

Office of Strategic Research  
3825 Ridgewood Road  
Jackson, MS 39211  
Phone: (601) 432-6445  
[www.mississippi.edu/research](http://www.mississippi.edu/research)

**BOARD OF TRUSTEES  
STATE INSTITUTIONS of HIGHER LEARNING**

Hal Parker, President  
*Bolton*

Dr. Bradford J. Dye, III, Vice President  
*Oxford*

Dr. Steven Cunningham  
*Hattiesburg*

Thomas Duff  
*Hattiesburg*

Shane Hooper  
*Tupelo*

Ann H. Lamar  
*Senatobia*

Jeanne Carter Luckey  
*Ocean Springs*

Bruce Martin  
*Meridian*

Dr. Alfred E. McNair, Jr.  
*Ocean Springs*

Chip Morgan  
*Stoneville*

Powell “Gee” Ogletree, Jr.  
*Flowood*

Dr. J. Walt Starr  
*Columbus*

---

Dr. Alfred Rankins, Jr.  
*Commissioner of Higher Education*

## INSTITUTION EXECUTIVE OFFICERS

Dr. Felecia M. Nave, President  
*Alcorn State University*

Mr. William N. LaForge, President  
*Delta State University*

Dr. William B. Bynum, Jr., President  
*Jackson State University*

Dr. Mark E. Keenum, President  
*Mississippi State University*

Ms. Nora R. Miller, President  
*Mississippi University for Women*

Dr. Jerryl Briggs, President  
*Mississippi Valley State University*

Mr. Larry Sparks, Interim Chancellor  
*University of Mississippi*

Dr. Rodney D. Bennett, President  
*University of Southern Mississippi*

---

Dr. LouAnn H. Woodward, Vice Chancellor for Health Affairs  
*University of Mississippi Medical Center*

Dr. Gregory A. Bohach, Vice President  
*Agriculture, Forestry and Veterinary Medicine*  
*Mississippi State University*

## 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   |
| System Trend of Non-Federal Funding.....   | 5   |
| Alcorn State University.....   | 6   |
| Delta State University.....  | 7   |
| Jackson State University.....  | 8   |
| Mississippi State University.....  | 9   |
| Mississippi University for Women.....  | 11  |
| Mississippi Valley State University.....   | 12  |
| University of Mississippi with the University of Mississippi Medical Center..... | 13  |
| University of Southern Mississippi.....  | 15  |
| IHL Executive Office.....  | 17  |
| UNIVERSITY RESEARCH GROUPS.....  | 18  |
| Mississippi University Research Authority (MURA).....                            | 19  |
| Mississippi Research Consortium (MRC).....                                       | 20  |
| Mississippi Education and Research Group (MERG).....                             | 21  |

# MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

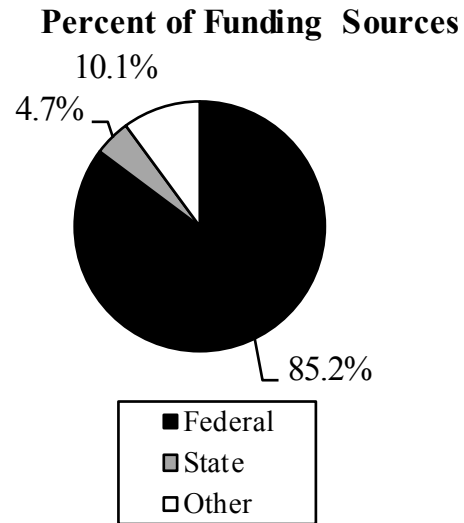
## FY 2019 Research Catalog - IHL System Summary

Dr. Alfred Rankins, Commissioner

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

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

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

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

### Percent Change in Total External Funding

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

### Percent Change in Total Projects Supported

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

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

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

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



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

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

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

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

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

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

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

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

| I. Funding Distribution - College/Division                       | Number of<br>Projects | Amount              |
|--|-----------------------|---------------------|
| Office of Community Development                                  | 7                     | \$902,045           |
| School of Agriculture, Research, Extension, and Applied Sciences | 25                    | \$7,178,661         |
| School of Arts and Sciences                                      | 8                     | \$996,415           |
| School of Education and Psychology                               | 2                     | \$1,111,197         |
| School of General College of Excellence                          | 1                     | \$347,944           |
| School of Graduate Studies                                       | 1                     | \$476,166           |
| School of Nursing  | 1                     | \$1,000             |
| Title III Strengthening Institutional Programs                   | 2                     | \$4,583,226         |
| <b>TOTAL</b>   | <b>47</b>             | <b>\$15,596,654</b> |
| <br>   |                       |                     |
| II. Funding Sources  |                       |                     |
| FEDERAL External Funding by Agency/Department                    |                       |                     |
| National Science Foundation                                      | 1                     | \$1,105,214         |
| U.S. Department of Agriculture                                   | 23                    | \$7,573,336         |
| U.S. Department of Education                                     | 5                     | \$5,906,921         |
| <b>TOTAL Federal Sources</b>                                     | <b>29</b>             | <b>\$14,585,471</b> |
| <br>   |                       |                     |
| STATE, PRIVATE, CORPORATE, OTHER External Funding by             |                       |                     |
| State Funding [other than general appropriation]                 | 0                     | \$0                 |
| State of Mississippi Agencies                                    | 3                     | \$103,854           |
| Private/Corporate Business and Industry                          | 2                     | \$49,173            |
| Foundations and Non-Profit Groups                                | 7                     | \$268,830           |
| Other In-State Universities                                      | 3                     | \$257,000           |
| Other Out-of-State Universities                                  | 3                     | \$332,326           |
| Local Governments  | 0                     | \$0                 |
| Other State Governments  | 0                     | \$0                 |
| Foreign Governments & Organizations                              | 0                     | \$0                 |
| Other [all other sources not listed above]                       | 0                     | \$0                 |
| <b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER</b>                | <b>18</b>             | <b>\$1,011,183</b>  |
| <br>   |                       |                     |
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>                       | <b>47</b>             | <b>\$15,596,654</b> |

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

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

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

| I. Funding Distribution - College/Division           | Number of<br>Projects | Amount             |
|--|-----------------------|--------------------|
| Archives and Museums                                 | 1                     | \$6,254            |
| Athletics  | 1                     | \$275,000          |
| Bologna Performing Arts Center                       | 9                     | \$37,946           |
| Center for Community and Economic Development        | 5                     | \$587,431          |
| College of Arts and Sciences                         | 14                    | \$852,482          |
| College of Education and Human Sciences              | 4                     | \$218,304          |
| Delta Center for Culture and Learning                | 8                     | \$701,500          |
| Delta Music Institute                                | 3                     | \$138,496          |
| Graduate and Continuing Studies                      | 3                     | \$510,926          |
| Office of the President                              | 1                     | \$6,500            |
| Office of Undergraduate Admissions                   | 1                     | \$200,000          |
| School of Nursing                                    | 1                     | \$41,734           |
| Student Success Center                               | 1                     | \$184,800          |
| <b>TOTAL</b>   | <b>52</b>             | <b>\$3,761,373</b> |
| <br>   |                       |                    |
| II. Funding Sources:                                 |                       |                    |
| FEDERAL External Funding by Agency/Department        |                       |                    |
| National Aeronautics and Space Administration        | 1                     | \$15,000           |
| National Endowment for the Humanities                | 1                     | \$170,000          |
| National Institutes of Health                        | 1                     | \$113,715          |
| National Science Foundation                          | 2                     | \$50,000           |
| U.S. Department of Agriculture                       | 1                     | \$70,165           |
| U.S. Department of Education                         | 2                     | \$493,287          |
| National Park Service                                | 3                     | \$362,500          |
| National Geospatial Agency                           | 1                     | \$357,500          |
| Naval Meteorology & Oceanography Command             | 1                     | \$109,014          |
| <b>TOTAL Federal Sources</b>                         | <b>13</b>             | <b>\$1,741,181</b> |
| <br>   |                       |                    |
| STATE, PRIVATE, CORPORATE, OTHER External Funding by |                       |                    |
| State Funding [other than general appropriation]     | 0                     | \$0                |
| State of Mississippi Agencies                        | 13                    | \$461,787          |
| Private/Corporate Business and Industry              | 0                     | \$0                |
| Foundations and Non-Profit Groups                    | 25                    | \$1,553,405        |
| Other In-State Universities                          | 0                     | \$0                |
| Other Out-of-State Universities                      | 1                     | \$5,000            |
| Local Governments                                    | 0                     | \$0                |
| Other State Governments                              | 0                     | \$0                |
| Foreign Governments & Organizations                  | 0                     | \$0                |
| Other [all other sources not listed above]           | 0                     | \$0                |
| <b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER</b>    | <b>39</b>             | <b>\$2,020,192</b> |
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>           | <b>52</b>             | <b>\$3,761,373</b> |

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

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

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

| I. Funding Distribution - College/Division           | Number of<br>Projects | Amount              |
|--|-----------------------|---------------------|
| Office of the President                              | 5                     | \$9,779,221         |
| Division of Academic Affairs                         | 2                     | \$505,505           |
| Division of Athletics                                | 0                     | \$0                 |
| Division of Business and Finance                     | 0                     | \$0                 |
| Division of Institutional Advancement                | 3                     | \$523,030           |
| Office of Research and Economic Development          | 1                     | \$3,194             |
| College of Business                                  | 3                     | \$734,856           |
| College of Education and Human Development           | 7                     | \$842,775           |
| College of Liberal Arts                              | 10                    | \$716,231           |
| College of Public Service                            | 1                     | \$150,000           |
| College of Engineering, Science and Technology       | 64                    | \$11,282,100        |
| School of Public Health                              | 8                     | \$1,300,587         |
| <b>TOTAL</b>   | <b>104</b>            | <b>\$25,837,499</b> |
| <br>   |                       |                     |
| II. Funding Sources                                  |                       |                     |
| FEDERAL External Funding by Agency/Department        |                       |                     |
| U.S. Department of Transportation                    | 7                     | \$25,500            |
| U.S. Army Engineer Research and Development Center   | 4                     | \$42,878            |
| United States Airforce                               | 2                     | \$140,465           |
| U.S. Navy  | 4                     | \$305,135           |
| Health Resource and Services Association             | 1                     | \$352,994           |
| U.S. Department of Army                              | 1                     | \$500,000           |
| U.S. Department of Defense                           | 1                     | \$600,000           |
| National Institutes of Health                        | 7                     | \$2,097,160         |
| National Science Foundation                          | 12                    | \$6,176,343         |
| U.S. Department of Education                         | 9                     | \$10,580,631        |
| <b>TOTAL Federal Sources</b>                         | <b>48</b>             | <b>\$20,821,107</b> |
| <br>   |                       |                     |
| STATE, PRIVATE, CORPORATE, OTHER External Funding by |                       |                     |
| State Funding [other than general appropriation]     | 0                     | \$0                 |
| State of Mississippi Agencies                        | 13                    | \$1,150,111         |
| Private/Corporate Business and Industry              | 5                     | \$110,982           |
| Foundations and Non-Profit Groups                    | 11                    | \$513,319           |
| Other In-State Universities                          | 12                    | \$1,085,562         |
| Other Out-of-State Universities                      | 14                    | \$2,081,418         |
| Local Governments                                    | 1                     | \$75,000            |
| Other State Governments                              | 0                     | \$0                 |
| Foreign Governments & Organizations                  | 0                     | \$0                 |
| Other [all other sources not listed above]           | 0                     | \$0                 |
| <b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER</b>    | <b>56</b>             | <b>\$5,016,392</b>  |
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>           | <b>104</b>            | <b>\$25,837,499</b> |

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

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

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

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

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

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

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

**Mississippi University for Women  
Annual Report on Research and Sponsored Programs  
July 1, 2018 - June 30, 2019**

**Ms. Nora Miller, President  
Phone number 662-329-7100**

**Dr. C. Scott Tollison, Provost & Vice President for Academic Affairs  
Phone number: 662-329-7142**

| I. Funding Distribution - College/Division                  | Number of<br>Projects | Amount             |
|---|-----------------------|--------------------|
| Academic Support*   | 2                     | \$4,903,918        |
| Center for Outreach and Innovation                          | 2                     | \$146,855          |
| College of Arts, Sciences, & Education                      | 2                     | \$18,500           |
| *Includes total for Mississippi School for Math and Science |                       |                    |
| <b>TOTAL</b>  | <b>6</b>              | <b>\$5,069,273</b> |
|   |                       |                    |
| II. Funding Sources   |                       |                    |
| FEDERAL External Funding by Agency/Department               |                       |                    |
| National Aeronautics and Space Administration               | 1                     | \$15,000           |
| U.S. Department of Education                                | 1                     | \$401,628          |
| <b>TOTAL Federal Sources</b>                                | <b>2</b>              | <b>\$416,628</b>   |
|   |                       |                    |
| STATE, PRIVATE, CORPORATE, OTHER External Funding by        |                       |                    |
| State Funding [other than general appropriation]            | 1                     | \$4,502,290        |
| State of Mississippi Agencies                               | 0                     | \$0                |
| Private/Corporate Business and Industry                     | 0                     | \$0                |
| Foundations and Non-Profit Groups                           | 3                     | \$150,355          |
| Other In-State Universities                                 | 0                     | \$0                |
| Other Out-of-State Universities                             | 0                     | \$0                |
| Local Governments   | 0                     | \$0                |
| Other State Governments                                     | 0                     | \$0                |
| Foreign Governments & Organizations                         | 0                     | \$0                |
| Other [all other sources not listed above]                  | 0                     | \$0                |
| <b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER</b>           | <b>4</b>              | <b>\$4,652,645</b> |
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>                  | <b>6</b>              | <b>\$5,069,273</b> |



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

**Dr. Jerryl Briggs, President  
Phone Number: 662-254-3425**

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

| I. Funding Distribution - College/Division                   | Number of<br>Projects | Amount             |
|--|-----------------------|--------------------|
| Department of Distance Education                             | 1                     | \$475,000          |
| Department of English and Foreign Languages                  | 1                     | \$10,150           |
| Department of Fine Arts                                      | 1                     | \$4,000            |
| Department of Mathematics, Computer and Information Sciences | 6                     | \$797,037          |
| Department of Natural Sciences and Environmental Health      | 3                     | \$486,536          |
| Department of Teacher Education                              | 1                     | \$313,172          |
| Division of Student Affairs                                  | 5                     | \$1,768,115        |
| Division of University Advancement                           | 1                     | \$208,423          |
| Office of the President                                      | 2                     | \$568,336          |
| Title III Strengthening Institutions Program                 | 2                     | \$3,824,585        |
| <b>TOTAL</b>   | <b>23</b>             | <b>\$8,455,354</b> |
| <br>   |                       |                    |
| II. Funding Sources  |                       |                    |
| FEDERAL External Funding by Agency/Department                |                       |                    |
| National Science Foundation                                  | 2                     | \$312,037          |
| U.S. Department of Education                                 | 9                     | \$6,587,509        |
| U.S. Department of Justice                                   | 1                     | \$299,995          |
| <b>TOTAL Federal Sources</b>                                 | <b>12</b>             | <b>\$7,199,541</b> |
| <br>   |                       |                    |
| STATE, PRIVATE, CORPORATE, OTHER External Funding by         |                       |                    |
| State Funding [other than general appropriation]             | 0                     | \$0                |
| State of Mississippi Agencies                                | 4                     | \$928,370          |
| Private/Corporate Business and Industry                      | 0                     |                    |
| Foundations and Non-Profit Groups                            | 2                     | \$218,573          |
| Other In-State Universities                                  | 4                     | \$88,870           |
| Other Out-of-State Universities                              | 1                     | \$20,000           |
| Local Governments  | 0                     | \$0                |
| Other State Governments                                      | 0                     | \$0                |
| Foreign Governments & Organizations                          | 0                     | \$0                |
| Other [all other sources not listed above]                   | 0                     | \$0                |
| <b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER</b>            | <b>11</b>             | <b>\$1,255,813</b> |
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>                   | <b>23</b>             | <b>\$8,455,354</b> |

**University of Mississippi**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2018 - June 30, 2019**

**Mr. Larry Sparks, Interim Chancellor**  
**Phone number: 662-915-1100**

**Dr. Joseph R. Gladden, Vice Chancellor for Research**  
**Phone number: 662-915-7583**

**Dr. LouAnn H. Woodward, Vice Chancellor for Health Affairs**  
**Phone number: 601-984-1058**

**Dr. Richard Summers, Associate Vice Chancellor for Research**  
**Phone number: 601-858-5000**

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

**University of Mississippi**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2018 - June 30, 2019**

II. Funding Sources

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

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

|  |            |                      |
|--|------------|----------------------|
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b> | <b>603</b> | <b>\$133,749,642</b> |
|--|------------|----------------------|

**University of Southern Mississippi**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2018 - June 30, 2019**

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

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

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

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

**University of Southern Mississippi**  
**Annual Report on Research and Sponsored Programs**  
**July 1, 2018 - June 30, 2019**

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

**IHL Executive Office  
Annual Report on Research and Sponsored Programs  
July 1, 2018 - June 30, 2019**

**Dr. Alfred Rankins, Jr., Commissioner  
Phone number: 601-432-6623**

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

| I. Funding Distribution - College/Division           | Number of<br>Projects | Amount             |
|--|-----------------------|--------------------|
| Academic and Student Affairs                         | 2                     | \$1,476,739        |
| Government Relations and Strategic Initiatives       | 2                     | \$1,500,000        |
| <b>TOTAL</b>   | <b>4</b>              | <b>\$2,976,739</b> |
| <br>   |                       |                    |
| II. Funding Sources                                  |                       |                    |
| FEDERAL External Funding by Agency/Department        |                       |                    |
| Corporation for National & Community Service         | 1                     | \$915,796          |
| U.S. Department of Health and Human Services         | 1                     | \$1,000,000        |
| <b>TOTAL Federal Sources</b>                         | <b>2</b>              | <b>\$1,915,796</b> |
| <br>   |                       |                    |
| STATE, PRIVATE, CORPORATE, OTHER External Funding by |                       |                    |
| State Funding [other than general appropriation]     | 0                     | \$0                |
| State of Mississippi Agencies                        | 1                     | \$150,000          |
| Private/Corporate Business and Industry              | 0                     | \$0                |
| Foundations and Non-Profit Groups                    | 0                     | \$0                |
| Other In-State Universities                          | 0                     | \$0                |
| Other Out-of-State Universities                      | 0                     | \$0                |
| Local Governments                                    | 1                     | \$560,943          |
| Other State Governments                              | 0                     | \$0                |
| Foreign Governments & Organizations                  | 0                     | \$0                |
| Other [all other sources not listed above]           | 0                     | \$0                |
| <b>TOTAL STATE, PRIVATE, CORPORATE, and OTHER</b>    | <b>2</b>              | <b>\$710,943</b>   |
| <b>GRAND TOTAL of ALL EXTERNAL FUNDING</b>           | <b>4</b>              | <b>\$2,626,739</b> |

## 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.