PREFACE

FY 2015 RESEARCH CATALOG

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

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

1. Assist in developing strong legislative funding support for research,

2. Improve the regional, national, and international image of Mississippi universities as research institutions,

3. Encourage continued and expanded external funding support for state university research and sponsored programs, and

4. Enhance further development of technology transfer and practical applications of research which impact the state’s economy.

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

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

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

Recommended APA Citation:

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University of Mississippi Medical Center

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Agriculture, Forestry and Veterinary Medicine
Mississippi State University
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<tr>
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</tr>
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</table>
## MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

FY 2015 Research Catalog - IHL System Summary

Dr. Glenn F. Boyce, Commissioner

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

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

<table>
<thead>
<tr>
<th>University</th>
<th>Projects Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASU</td>
<td>53</td>
</tr>
<tr>
<td>DSU</td>
<td>55</td>
</tr>
<tr>
<td>JSU</td>
<td>136</td>
</tr>
<tr>
<td>MSU</td>
<td>1,368</td>
</tr>
<tr>
<td>MUW*</td>
<td>9</td>
</tr>
<tr>
<td>MVSU</td>
<td>25</td>
</tr>
<tr>
<td>UM/UMMC</td>
<td>546</td>
</tr>
<tr>
<td>USM</td>
<td>264</td>
</tr>
<tr>
<td>SYSTEM</td>
<td>2,456</td>
</tr>
</tbody>
</table>

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

### Percent of Funding Sources

- Federal: 72.4%
- State: 17.0%
- Other: 10.6%
MISSISSIPPI INSTITUTIONS OF HIGHER LEARNING

System History - Research and Sponsored Programs

Total External Funding Five-Year Comparison

<table>
<thead>
<tr>
<th>University</th>
<th>FY 2011</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASU</td>
<td>$30,821,885</td>
<td>$29,947,232</td>
<td>$17,304,430</td>
<td>$14,056,414</td>
<td>$13,422,941</td>
</tr>
<tr>
<td>DSU</td>
<td>$6,137,743</td>
<td>$7,086,255</td>
<td>$4,174,742</td>
<td>$4,256,252</td>
<td>$6,820,389</td>
</tr>
<tr>
<td>JSU</td>
<td>$57,023,314</td>
<td>$48,644,799</td>
<td>$36,242,977</td>
<td>$28,363,681</td>
<td>$29,466,629</td>
</tr>
<tr>
<td>MSU</td>
<td>$166,660,258</td>
<td>$134,904,345</td>
<td>$114,819,900</td>
<td>$142,914,368</td>
<td>$167,543,258</td>
</tr>
<tr>
<td>MUW*</td>
<td>$6,664,021</td>
<td>$6,469,649</td>
<td>$5,304,013</td>
<td>$5,564,315</td>
<td>$5,716,500</td>
</tr>
<tr>
<td>MVSU</td>
<td>$12,273,455</td>
<td>$7,866,330</td>
<td>$6,757,655</td>
<td>$6,523,565</td>
<td>$6,550,449</td>
</tr>
<tr>
<td>UM</td>
<td>$78,854,347</td>
<td>$49,644,887</td>
<td>$61,555,860</td>
<td>$57,211,683</td>
<td>$62,310,548</td>
</tr>
<tr>
<td>UMMC</td>
<td>$84,995,810</td>
<td>$60,214,620</td>
<td>$44,517,037</td>
<td>$82,054,544</td>
<td>$51,829,282</td>
</tr>
<tr>
<td>USM</td>
<td>$77,724,860</td>
<td>$63,342,586</td>
<td>$52,195,616</td>
<td>$58,790,269</td>
<td>$72,976,047</td>
</tr>
<tr>
<td>SYSTEM</td>
<td>$521,155,694</td>
<td>$408,140,703</td>
<td>$342,882,231</td>
<td>$399,763,091</td>
<td>$416,636,043</td>
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</tbody>
</table>

Percent Change in Total External Funding

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

Percent Change in Total Projects Supported

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

* MUW amount includes funds for the Mississippi School for Math and Science.
## FY 2015 Research and Sponsored Programs

**System Trend of Federal External Funding**

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>2013 Total</th>
<th>2014 Total</th>
<th>2015 Total</th>
<th>2013-15 % Change</th>
<th>2014-15 % Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appalachian Regional Commission</td>
<td>$729,589</td>
<td>$200,000</td>
<td>$-</td>
<td>-100.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Corporation for National &amp; Community Service</td>
<td>$1,085,917</td>
<td>$1,028,681</td>
<td>$1,156,281</td>
<td>6.5%</td>
<td>12.4%</td>
</tr>
<tr>
<td>Defense Threat Reduction Agency</td>
<td>$7,323</td>
<td>$-</td>
<td>$-</td>
<td>-100.0%</td>
<td>n/a</td>
</tr>
<tr>
<td>Defense Advanced Research Projects Agency</td>
<td>$-</td>
<td>$3,500</td>
<td>$7,500</td>
<td>n/a</td>
<td>114.3%</td>
</tr>
<tr>
<td>Delta Area Economic Development</td>
<td>$450,000</td>
<td>$-</td>
<td>$-</td>
<td>-100.0%</td>
<td>n/a</td>
</tr>
<tr>
<td>Delta Regional Authority</td>
<td>$-</td>
<td>$1,207,323</td>
<td>$-</td>
<td>n/a</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Embassy of the United States of America, Baghdad, Iraq</td>
<td>$-</td>
<td>$-</td>
<td>$161,922</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Engineering Research &amp; Development Center</td>
<td>$1,053,829</td>
<td>$8,118,762</td>
<td>$-</td>
<td>-100.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Federal Highway Administration</td>
<td>$55,000</td>
<td>$232,477</td>
<td>$-</td>
<td>-100.0%</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Federal Motor Carrier Safety Administration</td>
<td>$-</td>
<td>$344,110</td>
<td>$-</td>
<td>n/a</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Health Resource and Services Association</td>
<td>$5,611,661</td>
<td>$5,457,395</td>
<td>$4,834,208</td>
<td>-13.9%</td>
<td>-11.4%</td>
</tr>
<tr>
<td>Institute of Museum and Library Sciences</td>
<td>$7,190</td>
<td>$-</td>
<td>$-</td>
<td>-100.0%</td>
<td>n/a</td>
</tr>
<tr>
<td>Library of Congress</td>
<td>$-</td>
<td>$20,000</td>
<td>$-</td>
<td>n/a</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Missile Defense Agency</td>
<td>$5,550</td>
<td>$-</td>
<td>$4,129</td>
<td>-25.6%</td>
<td>n/a</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
<td>$5,731,558</td>
<td>$4,544,192</td>
<td>$5,071,231</td>
<td>-11.5%</td>
<td>11.6%</td>
</tr>
<tr>
<td>National Endowment for the Arts</td>
<td>$53,210</td>
<td>$68,391</td>
<td>$46,893</td>
<td>-11.9%</td>
<td>-31.4%</td>
</tr>
<tr>
<td>National Endowment for the Humanities</td>
<td>$306,930</td>
<td>$671,022</td>
<td>$189,955</td>
<td>-38.1%</td>
<td>-71.7%</td>
</tr>
<tr>
<td>National Highway Traffic Safety Administration</td>
<td>$850,833</td>
<td>$1,421,022</td>
<td>$906,327</td>
<td>13.6%</td>
<td>-32.0%</td>
</tr>
<tr>
<td>National Institute of Health</td>
<td>$35,634,122</td>
<td>$58,598,333</td>
<td>$53,066,783</td>
<td>48.9%</td>
<td>-9.4%</td>
</tr>
<tr>
<td>National Institute of Justice</td>
<td>$264,603</td>
<td>$-</td>
<td>$843,376</td>
<td>218.7%</td>
<td>n/a</td>
</tr>
<tr>
<td>National Institute for Occupational Safety &amp; Health</td>
<td>$-</td>
<td>$67,455</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>$24,627,523</td>
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<td>$21,295,910</td>
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<td>-3.7%</td>
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<tr>
<td>National Security Agency</td>
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<td>$340,451</td>
<td>$5,769,480</td>
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<td>1594.7%</td>
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<tr>
<td>NAVAIR SYSCOM</td>
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<td>$787,773</td>
<td>$581,093</td>
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<td>-26.2%</td>
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<tr>
<td>Nuclear Regulatory Commission</td>
<td>$-</td>
<td>$199,966</td>
<td>$314,726</td>
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<td>57.4%</td>
</tr>
<tr>
<td>Office of Juvenile Justice and Delinquency Prevention</td>
<td>$-</td>
<td>$82,000</td>
<td>$96,547</td>
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<td>17.7%</td>
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<tr>
<td>Office of Naval Research</td>
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<td>$66,000</td>
<td>$1,033,998</td>
<td>n/a</td>
<td>1466.7%</td>
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<tr>
<td>Open World Leadership Center</td>
<td>$17,653</td>
<td>$-</td>
<td>$-</td>
<td>-100.0%</td>
<td>n/a</td>
</tr>
<tr>
<td>Substance Abuse &amp; Mental Health Services Administration</td>
<td>$-</td>
<td>$101,390</td>
<td>$202,683</td>
<td>n/a</td>
<td>99.9%</td>
</tr>
<tr>
<td>United Sorghum Checkoff Program</td>
<td>$-</td>
<td>$-</td>
<td>$37,000</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>U.S. Agency for International Development</td>
<td>$-</td>
<td>$1,564,269</td>
<td>$1,094,857</td>
<td>n/a</td>
<td>-30.0%</td>
</tr>
<tr>
<td>U.S. Army</td>
<td>$-</td>
<td>$-</td>
<td>$565,468</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>U.S. Army Corps of Engineers</td>
<td>$-</td>
<td>$-</td>
<td>$8,295,247</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>U.S. Department of Agriculture</td>
<td>$45,691,440</td>
<td>$53,283,422</td>
<td>$66,761,680</td>
<td>46.1%</td>
<td>25.3%</td>
</tr>
<tr>
<td>U.S. Department of Commerce</td>
<td>$11,565,840</td>
<td>$14,989,734</td>
<td>$17,169,938</td>
<td>48.5%</td>
<td>14.5%</td>
</tr>
<tr>
<td>U.S. Department of Defense</td>
<td>$19,766,261</td>
<td>$21,275,847</td>
<td>$16,094,973</td>
<td>-18.6%</td>
<td>-24.4%</td>
</tr>
<tr>
<td>U.S. Department of Education</td>
<td>$31,855,896</td>
<td>$27,614,041</td>
<td>$34,109,070</td>
<td>7.1%</td>
<td>23.5%</td>
</tr>
<tr>
<td>U.S. Department of Energy</td>
<td>$4,547,393</td>
<td>$5,809,649</td>
<td>$12,075,071</td>
<td>165.5%</td>
<td>107.8%</td>
</tr>
<tr>
<td>U.S. Department of Health and Human Services</td>
<td>$28,350,883</td>
<td>$29,614,507</td>
<td>$33,133,843</td>
<td>16.9%</td>
<td>11.9%</td>
</tr>
<tr>
<td>U.S. Department of Homeland Security</td>
<td>$2,915,811</td>
<td>$1,624,454</td>
<td>$1,603,059</td>
<td>-45.0%</td>
<td>-1.3%</td>
</tr>
<tr>
<td>U.S. Department of Housing and Urban Development</td>
<td>$858,566</td>
<td>$11,761,009</td>
<td>$1,485,198</td>
<td>73.0%</td>
<td>-87.4%</td>
</tr>
<tr>
<td>U.S. Department of Interior</td>
<td>$2,984,118</td>
<td>$4,107,016</td>
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### Summary of Federal External Funding by Funding Source
in Descending Order of Totals by Source, FY 2015

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<th>MSU</th>
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<td>I. Funding Distribution - College/Division</td>
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<td>Amount</td>
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<td></td>
<td></td>
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<tr>
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</table>

II. Funding Sources

**FEDERAL External Funding by Agency/Department**

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<th>Agency/Department</th>
<th>Number</th>
<th>Amount</th>
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<td>National Science Foundation</td>
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**STATE, PRIVATE, CORPORATE, OTHER External Funding by**

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<td>Foreign Governments &amp; Organizations</td>
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**GRAND TOTAL of ALL EXTERNAL FUNDING** | **53** | **$13,422,941** |
## Funding Distribution - College/Division

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## Funding Sources:

### FEDERAL External Funding by Agency/Department

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<th>Amount</th>
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<td>U.S. Department of Interior</td>
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<tr>
<td>U.S. Department of Justice</td>
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<tr>
<td>U.S. Department of State</td>
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<tr>
<td>U.S. Department of State Bureau of Educational and Cultural Affairs</td>
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<tr>
<td><strong>TOTAL Federal Sources</strong></td>
<td>16</td>
<td><strong>$4,632,979</strong></td>
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### STATE, PRIVATE, CORPORATE, OTHER External Funding by

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<tr>
<th>Source</th>
<th>Number</th>
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<td>State of Mississippi Agencies</td>
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<td>Foundations and Non-Profit Groups</td>
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<td>$-</td>
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<tr>
<td>Other In-State Universities</td>
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<tr>
<td>Other Out-of-State Universities</td>
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<td>$-</td>
</tr>
<tr>
<td>Local Governments</td>
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<tr>
<td>Foreign Governments &amp; Organizations</td>
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<td>$-</td>
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<tr>
<td>Other [all other sources not listed above]</td>
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<td>$-</td>
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<td><strong>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</strong></td>
<td>39</td>
<td><strong>$2,187,410</strong></td>
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</table>

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

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

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

I. Funding Distribution - College/Division  

<table>
<thead>
<tr>
<th>College/Division</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business</td>
<td>1</td>
<td>$132,692</td>
</tr>
<tr>
<td>College of Education &amp; Human Development</td>
<td>11</td>
<td>$999,683</td>
</tr>
<tr>
<td>College of Liberal Arts</td>
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<td>$772,221</td>
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<tr>
<td>College of Public Service</td>
<td>18</td>
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<td>College of Science, Engineering &amp; Technology</td>
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<tr>
<td>Division of Academic Affairs</td>
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<td>Division of Business Finance</td>
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<td>Division of Information Technology</td>
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<td>Division of Research and Federal Relations</td>
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<td>$776,694</td>
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<tr>
<td>Office of the President</td>
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<tr>
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<td><strong>136</strong></td>
<td><strong>$29,466,629</strong></td>
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</table>

II. Funding Sources  

FEDERAL External Funding by Agency/Department  

<table>
<thead>
<tr>
<th>Agency/Department</th>
<th>Number of Projects</th>
<th>Amount</th>
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<tbody>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>5</td>
<td>$147,380</td>
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<tr>
<td>National Institutes of Health</td>
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<td>$9,891,413</td>
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<tr>
<td>National Science Foundation</td>
<td>24</td>
<td>$4,896,526</td>
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<tr>
<td>Nuclear Regulatory Commission</td>
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<td>U.S. Department of Commerce</td>
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<td>U.S. Department of Defense</td>
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<td>U.S. Department of Education</td>
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<td>U.S. Department of Health and Human Services</td>
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<td>U.S. Department of Homeland Security</td>
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<tr>
<td>U.S. Department of Transportation</td>
<td>9</td>
<td>$429,500</td>
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<td>U.S. Small Business Administration</td>
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<td><strong>TOTAL Federal Sources</strong></td>
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<td><strong>$27,160,087</strong></td>
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STATE, PRIVATE, CORPORATE, OTHER External Funding by  

<table>
<thead>
<tr>
<th>Source</th>
<th>Number of Projects</th>
<th>Amount</th>
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<tbody>
<tr>
<td>State Funding [other than general appropriation]</td>
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<tr>
<td>Other In-State Universities</td>
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<tr>
<td>Local Governments</td>
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</tr>
<tr>
<td>Foreign Governments &amp; Organizations</td>
<td>0</td>
<td>$-</td>
</tr>
<tr>
<td>Other [all other sources not listed above]</td>
<td>0</td>
<td>$-</td>
</tr>
<tr>
<td><strong>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</strong></td>
<td><strong>33</strong></td>
<td><strong>$2,306,542</strong></td>
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</table>

**GRAND TOTAL of ALL EXTERNAL FUNDING**  

<table>
<thead>
<tr>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>136</td>
<td>$29,466,629</td>
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</tbody>
</table>
## I. Funding Distribution - College/Division

<table>
<thead>
<tr>
<th>College/Division</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Bagley College of Engineering</td>
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<td>$24,274,768</td>
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<tr>
<td>College of Architecture, Art, and Design</td>
<td>9</td>
<td>$293,312</td>
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<td>College of Arts and Sciences</td>
<td>49</td>
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<tr>
<td>College of Business</td>
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<tr>
<td>College of Education</td>
<td>66</td>
<td>$4,318,509</td>
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<tr>
<td>College of Forest Resources/Forest Wildlife Research Center</td>
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<td>$7,625,809</td>
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<tr>
<td>College of Veterinary Medicine</td>
<td>32</td>
<td>$3,883,606</td>
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<td>Division of Student Affairs</td>
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<td>$366,825</td>
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<td>Mitchell Memorial Library</td>
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<td>$16,582,633</td>
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<td>MS State University Extension Service</td>
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<td>$42,534,912</td>
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<td>University Centers and Institutes</td>
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<td>Vice President for Campus Services</td>
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<td><strong>TOTAL</strong></td>
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## II. Funding Sources

<table>
<thead>
<tr>
<th>Agency/Department</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defense Advanced Research Projects Agency</td>
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<tr>
<td>Embassy of the United States of America, Baghdad, Iraq</td>
<td>1</td>
<td>$161,922</td>
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<tr>
<td>Missile Defense Agency (MDA)</td>
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</tr>
<tr>
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<td>National Endowment for the Humanities</td>
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<td>National Highway Traffic Safety Administration</td>
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<tr>
<td>National Institutes of Health</td>
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<tr>
<td>National Institute of Justice</td>
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<tr>
<td>National Institute for Occupational Safety &amp; Health</td>
<td>1</td>
<td>$67,455</td>
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<tr>
<td>National Science Foundation</td>
<td>33</td>
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<tr>
<td>NAVAIR SYSCOM</td>
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<td>National Security Agency</td>
<td>10</td>
<td>$5,769,480</td>
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<tr>
<td>Office of Juvenile Justice and Delinquency Prevention</td>
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<tr>
<td>Office of Naval Research (ONR)</td>
<td>6</td>
<td>$1,033,998</td>
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<tr>
<td>Substance Abuse and Mental Health Services Administration</td>
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<tr>
<td>United Sorghum Checkoff Program</td>
<td>2</td>
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<tr>
<td>U.S. Agency for International Development</td>
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<tr>
<td>U.S. Army</td>
<td>8</td>
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<tr>
<td>U.S. Army Corps of Engineers</td>
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<td>U.S. Department of Agriculture</td>
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<td>U.S. Department of Commerce</td>
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<td>U.S. Department of Defense</td>
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<tr>
<td>U.S. Department of Education</td>
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<td>$4,483,565</td>
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<td>U.S. Department of Energy</td>
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<td>U.S. Department of Health and Human Services</td>
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## II. Funding Sources

### FEDERAL External Funding by Agency/Department Continued

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<tr>
<th>Agency/Department</th>
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<th>Amount</th>
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<td>U.S. Department of Interior</td>
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<td>U.S. Department of Justice</td>
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<td>$69,958</td>
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<tr>
<td>U.S. Department of Labor</td>
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<tr>
<td>U.S. Department of State</td>
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<td>U.S. Department of Transportation</td>
<td>11</td>
<td>$482,573</td>
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<tr>
<td>U.S. Department of Veterans Affairs</td>
<td>4</td>
<td>$55,500</td>
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<tr>
<td>U.S. Economic Development Administration</td>
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<td>$128,592</td>
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<tr>
<td>U.S. Environmental Protection Agency</td>
<td>4</td>
<td>$92,000</td>
</tr>
<tr>
<td>U.S. Food and Drug Administration</td>
<td>4</td>
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<tr>
<td>U.S. Small Business Administration</td>
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<td><strong>TOTAL Federal Sources</strong></td>
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### STATE, PRIVATE, CORPORATE, OTHER External Funding by Source

<table>
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<tr>
<th>Source</th>
<th>Number of Projects</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>State Funding [other than general appropriation]</td>
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</tr>
<tr>
<td>State of Mississippi Agencies</td>
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<tr>
<td>Other State Governments</td>
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</tr>
<tr>
<td>Other In-State Universities</td>
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<tr>
<td>Other Out-of-State Universities</td>
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<td>$484,361</td>
</tr>
<tr>
<td>Local Governments</td>
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</tr>
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<td>Foreign Governments &amp; Organizations</td>
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</tr>
<tr>
<td>Other [all other sources not listed above]</td>
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<td>$-</td>
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<td><strong>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</strong></td>
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</tbody>
</table>

**Grand Total of ALL EXTERNAL FUNDING** 1,368  $167,543,258
I. Funding Distribution - College/Division

<table>
<thead>
<tr>
<th>College/Division</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Support*</td>
<td>2</td>
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</tr>
<tr>
<td>Center for Creative Learning</td>
<td>1</td>
<td>$400,000</td>
</tr>
<tr>
<td>Center for Outreach and Innovation</td>
<td>1</td>
<td>$30,000</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>2</td>
<td>$60,000</td>
</tr>
<tr>
<td>College of Business &amp; Professional Studies</td>
<td>1</td>
<td>$600,000</td>
</tr>
<tr>
<td>College of Education and Human Sciences</td>
<td>2</td>
<td>$91,500</td>
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</tbody>
</table>

*Includes total for Mississippi School for Math and Science $4,495,000

TOTAL 9 $5,716,500

II. Funding Sources

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEDERAL External Funding by Agency/Department</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>1</td>
<td>$10,000</td>
</tr>
<tr>
<td>National Institutes of Health</td>
<td>1</td>
<td>$50,000</td>
</tr>
<tr>
<td>U.S. Department of Agriculture</td>
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<td>$30,000</td>
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<td>U.S. Department of Education</td>
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<td>TOTAL Federal Sources</td>
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STATE, PRIVATE, CORPORATE, OTHER External Funding by

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Funding [other than general appropriation]</td>
<td>1</td>
<td>$4,495,000</td>
</tr>
<tr>
<td>State of Mississippi Agencies</td>
<td>1</td>
<td>$40,000</td>
</tr>
<tr>
<td>Private/Corporate Business and Industry</td>
<td>0</td>
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</tr>
<tr>
<td>Foundations and Non-Profit Groups</td>
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<tr>
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</tr>
<tr>
<td>Other In-State Universities</td>
<td>0</td>
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<tr>
<td>Other Out-of-State Universities</td>
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<td>$-</td>
</tr>
<tr>
<td>Local Governments</td>
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<td>$-</td>
</tr>
<tr>
<td>Foreign Governments &amp; Organizations</td>
<td>0</td>
<td>$-</td>
</tr>
<tr>
<td>Other [all other sources not listed above]</td>
<td>0</td>
<td>$-</td>
</tr>
<tr>
<td>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</td>
<td>5</td>
<td>$5,536,500</td>
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</tbody>
</table>

GRAND TOTAL of ALL EXTERNAL FUNDING 9 $5,716,500
## I. Funding Distribution - College/Division

<table>
<thead>
<tr>
<th>College/Division</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletics Administration</td>
<td>1</td>
<td>$300,000</td>
</tr>
<tr>
<td>Department of English and Foreign Languages</td>
<td>1</td>
<td>$10,000</td>
</tr>
<tr>
<td>Department of Mathematics and Computer Information Sciences</td>
<td>2</td>
<td>$195,840</td>
</tr>
<tr>
<td>Department of Natural Sciences and Environmental Health</td>
<td>5</td>
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<tr>
<td>Department of Teacher Education</td>
<td>2</td>
<td>$101,100</td>
</tr>
<tr>
<td>Division of Academic Affairs</td>
<td>4</td>
<td>$69,026</td>
</tr>
<tr>
<td>Division of Student Affairs</td>
<td>4</td>
<td>$1,063,890</td>
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<tr>
<td>Office of the Chief Operating Officer</td>
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<td><strong>TOTAL</strong></td>
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<td><strong>$6,550,449</strong></td>
</tr>
</tbody>
</table>

## II. Funding Sources

### FEDERAL External Funding by Agency/Department

<table>
<thead>
<tr>
<th>Agency/Department</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
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<tr>
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<td>U.S. Department of Agriculture</td>
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<td>U.S. Department of Education</td>
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<td>U.S. Environmental Protection Agency</td>
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### STATE, PRIVATE, CORPORATE, OTHER External Funding by

<table>
<thead>
<tr>
<th>Source</th>
<th>Number of Projects</th>
<th>Amount</th>
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<td>Other State Governments</td>
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<td>Local Governments</td>
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</tr>
<tr>
<td>Foreign Governments &amp; Organizations</td>
<td>0</td>
<td>$-</td>
</tr>
<tr>
<td>Other [all other sources not listed above]</td>
<td>0</td>
<td>$-</td>
</tr>
<tr>
<td><strong>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</strong></td>
<td><strong>15</strong></td>
<td><strong>$1,317,722</strong></td>
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**GRAND TOTAL of ALL EXTERNAL FUNDING** | **25** | **$6,550,449** |
<table>
<thead>
<tr>
<th>College/Division</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oxford Campus</strong></td>
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<td></td>
</tr>
<tr>
<td>Barksdale Reading Institute</td>
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<tr>
<td>College of Liberal Arts</td>
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<tr>
<td>Division of Outreach and Continuing Education</td>
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<td>$344,246</td>
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<tr>
<td>Honors College</td>
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<tr>
<td>Office of the Chancellor</td>
<td>1</td>
<td>$252,000</td>
</tr>
<tr>
<td>Office of the Provost</td>
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<td>$681,367</td>
</tr>
<tr>
<td>Office of the Vice Chancellor for Research</td>
<td>36</td>
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<tr>
<td>Office of the Vice Chancellor for Student Affairs</td>
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<td>$9,000</td>
</tr>
<tr>
<td>School of Applied Sciences</td>
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</tr>
<tr>
<td>School of Business Administration</td>
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<tr>
<td>School of Education</td>
<td>28</td>
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<tr>
<td>School of Engineering</td>
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<tr>
<td>School of Law</td>
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<tr>
<td>School of Pharmacy</td>
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<tr>
<td>Total Oxford</td>
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<tr>
<td><strong>Medical Center</strong></td>
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<tr>
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<tr>
<td>Office of the Vice Chancellor for Health Affairs</td>
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<td>School of Dentistry</td>
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<tr>
<td>School of Medicine</td>
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<td>$49,292,599</td>
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<td>School of Nursing</td>
<td>5</td>
<td>$531,434</td>
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<tr>
<td>UMMC Hospital Administration</td>
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<tr>
<td>Total Medical Center</td>
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<tr>
<td><strong>TOTAL (UM + UMMC)</strong></td>
<td>546</td>
<td>$114,139,830</td>
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</table>
II. Funding Sources

**FEDERAL External Funding by Agency/Department**

<table>
<thead>
<tr>
<th>Agency/Department</th>
<th>1</th>
<th>$25,000</th>
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<tbody>
<tr>
<td>Corporation for National &amp; Community Service</td>
<td>1</td>
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<tr>
<td>Health Resource and Services Association</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
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<td>National Endowment for the Humanities</td>
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<td>National Institutes of Health</td>
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<tr>
<td>National Science Foundation</td>
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<tr>
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<tr>
<td>U.S. Department of Commerce</td>
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<td>U.S. Department of Education</td>
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<tr>
<td>U.S. Department of Energy</td>
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<td>U.S. Department of Health and Human Services</td>
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<tr>
<td>UT-Battelle</td>
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<tr>
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<tr>
<td><strong>TOTAL Federal Sources</strong></td>
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**STATE, PRIVATE, CORPORATE, OTHER External Funding by**

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<th>Source</th>
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<td>State Funding [other than general appropriation]</td>
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<td>State of Mississippi Agencies</td>
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<tr>
<td>Private/Corporate Business and Industry</td>
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<td>Foundations and Non-Profit Groups</td>
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<td>Foreign Governments &amp; Organizations</td>
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**GRAND TOTAL of ALL EXTERNAL FUNDING**

| 546 | $114,139,830 |
## Funding Distribution - College/Division

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<thead>
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<th>College/Division</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts and Letters</td>
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<td>College of Business</td>
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<tr>
<td>College of Education and Psychology</td>
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<tr>
<td>College of Health</td>
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<tr>
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<tr>
<td><strong>Total</strong></td>
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## Funding Sources

<table>
<thead>
<tr>
<th>Federal Funding Source</th>
<th>Number of Projects</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Corporation for National &amp; Community Service</td>
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<td>$669,103</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
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<td>$1,287,759</td>
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<tr>
<td>National Endowment for the Humanities</td>
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<td>$9,299</td>
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<td>U.S. Department of Education</td>
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<td>U.S. Department of Energy</td>
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<td>U.S. Department of Homeland Security</td>
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<td>U.S. Department of Housing and Urban Development</td>
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**STATE, PRIVATE, CORPORATE, OTHER External Funding by**

<table>
<thead>
<tr>
<th>Source</th>
<th>Number of Projects</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Funding [other than general appropriation]</td>
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<td>$-</td>
</tr>
<tr>
<td>State of Mississippi Agencies</td>
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<tr>
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<td>Other In-State Universities</td>
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</tr>
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<td>Foreign Governments &amp; Organizations</td>
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<td><strong>TOTAL STATE, PRIVATE, CORPORATE, and OTHER Sources</strong></td>
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<td><strong>$26,539,537</strong></td>
</tr>
</tbody>
</table>

**GRAND TOTAL of ALL EXTERNAL FUNDING**                  | **264**            | **$72,976,047** |
University Research Groups
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.