Research and Economic Development @MSU

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Research and Scholarly Activity
Interdisciplinary flavor.

Largest research efforts focused around traditional strengths in agriculture and engineering.

Strong focus on research problems of relevance to Mississippi.

Strong partnerships between state agencies, federal governments, regional industry and MSU personnel.

Significant research partnerships with other MRC institutions.
Research Funding Trends

Awards
Expenditures

Year
2000
2001
2002
2003
2004
2005
2006
2007
2008

$151M
Growing and Initiating Your Research and Scholarship @MSU
Primary Sources of Information

http://www.research.msstate.edu/
ORED Grant Programs

- **Quick Grant Program** - The ORED Quick Grants Program is designed to provide faculty members with small grants to assist with their scholarship. These awards are for $2000 or less and can be used for small equipment purchases, travel to meet with a program sponsor, purchase of special scholarly tools, or other needs as appropriate. These funds are not intended for normal faculty travel to conferences (these requests should be routed through the Faculty Travel Program). Faculty submitting these requests must have approval of their department head and dean and can expect an answer back within one week.

- **Faculty Travel Program** - The ORED Faculty Travel Program is designed to assist faculty members with travel to professional meetings and conferences. These awards are for a maximum of $750 (for domestic travel) and $1500 (for international travel - with the exception of travel to Hawaii which is awarded at a maximum of $750). Generally, faculty members will only be eligible for a single travel grant per academic year. Some matching travel funds from an applicant's academic department and dean are expected. Faculty submitting these requests must have approval of their department head and dean, and can expect an answer back within one week.
ORED Grant Programs

- **Summer Research Program** - The Summer Research Program is for faculty members selected by a federal agency to participate in a formal research program. ORED provides half of the difference between the salary of the faculty member and the agency stipend for the appointment period if the department or college provides the remaining half. Submission of requests for the Summer Research Program should be done via electronic mail and sent to Ms. Sandy Williamson (sandy@research.msstate.edu). All requests must include: 1) Rationale for your request and 2) Amount of funding requested. Department Heads and Deans can simply forward faculty requests to the Office of Research and Economic Development along with their approval.

- **Humanities and Arts Research Program** - ORED currently provides $20,000 annually to the College of Arts and Sciences to provide small grants for faculty members in the humanities and arts. Instructions for applying are located at: http://www.msstate.edu/dept/IH/harpgrants.html.
Office of Sponsored Programs Administration

- Sponsored programs administration deals with the preparation and submittal of proposals.
- Grant administrators are assigned by colleges.
Office of Technology Commercialization

- This office provides support to faculty members who are seeking patents and are developing intellectual property from their work.
Office of Research Compliance

- This office deals with human-subjects research, animal research, biosafety, chemical safety, and radiological safety.
Faculty Leadership Program

Leadership & Faculty Development - 2007-2008 Faculty Leadership Program

August, 2007 - Program Introduction

August, 2007 - Program Introduction

September, 2007 - Understanding Your Leadership Style

October, 2007 - Principles of Academic Leadership - Facilitating Organizational Change

November, 2007 - Leadership and Change

November, 2007 - Strategic Planning

November, 2007 - Planning for Opportunities

December, 2007 - Developing a Culturally Diverse Climate

December, 2007 - Cultural Sensitivity and Diversity

December, 2007 - Cultural Sensitivity and Diversity Roundtable

December, 2007 - Cultural Sensitivity and its Impact on Educating Students for a Global World

January, 2008 - Building Effective Academic and Research Teams

January 14, 2008 - Dr. Peter Richblade

February, 2008 - Fundraising I: Basics of Private Fundraising

February 2008 - Dr. John P. Heath

March, 2008 - Fundamentals of Academic Leadership III: Conflict Management and Resolution

March 2008 - Dr. Sandra Jorge

March 2008 - Dr. Sandra Jorga - Roundtable

April, 2008 - Working Effectively with Support Staff Members

http://www.research.msstate.edu/development/fig.php
So, What Does the Future Hold?
Overall Goal - Research and Scholarship at MSU in 5 years…

- *Mississippi State University* will rank in the Top 100 research universities nationally in all major research categories. Our recognition as a major research university will be reflected by our designation as a *Research University – Very High Research Activity* by the Carnegie Foundation for the Advancement of Teaching.
How Do We Achieve This?

- Goal 1 - Increase the quantity and quality of PhD students and doctoral programs to emulate nationally recognized peer institutions.
- Goal 2 – Effectively promote and recognize faculty scholarship to enhance the national reputation of the university.
- Goal 3 - Identify and support institutional research focus areas that have a statewide, regional, and national priority.
- Goal 4 - Increase total university research funding to a level in excess of $200M sustained over a three-year period.
So Where Does MSU Rank Nationally Now?

- **Research Funding National Rank**
  - 17 - University of Florida
  - 36 - Vanderbilt University
  - 46 - LSU (all campuses)
  - 52 - University of Kentucky (all campuses)
  - 53 - University of Georgia
  - 69 - University of Tennessee (all campuses)
  - 86 - MISSISSIPPI STATE UNIVERSITY

- **MSU ranks around #150 nationally in number of doctoral students, number of post-docs, and national faculty award recognition.**
Implementation - Summer Working Groups

- Returned Overhead Sharing between Research Centers and Academic Units
- Development of 4 to 5 Major Research Thrusts
- Promotion Guidelines for “Research Track”
Economic Development
Creating Jobs and High Technology Industry in Mississippi

- 16 High Technology Companies in Starkville
  - *Atmos Technology*, Dr. David Smith
  - *BarSiC Semiconductors LLC*, Dr. Yaroslav Koshka and Dr. Galyna Melnychuk
  - *Biocrude, LLC*, Dr. Rafael Hernandez and Dr. Todd French
  - *Camgian Networks Corp.*, Dr. Gary D. Butler
  - *Nsite Innovations Inc.*, J. Scott Calhoun
  - *Quuercus*, LLC, Dr. Ray Winton
  - *Remote Animal Monitoring Solutions, LLC*, Dr. Scott T. Willard and Dr. Anna B. Chromiak
  - *SemiSouth Laboratories, LLC*, Dr. Mike Mazzola
  - *Spatial Information Solutions, Corp.*, Dr. Chuck O’Hare
  - *TermiSys Technologies, LLC*, Dr. Terry Amburgey, Dr. Shane Kitchens and Dr. Kevin Ragon
  - *YAGYM Technologies, LLC*, Dr. S.D. Filip To
Thad Cochran Research, Technology and Development Park Expansion

- Building Features
  - Approximately 42,000 square foot multi-tenant facility with ~160 offices.
  - Construction cost of approximately $8 million.
  - Funding provided through a grant from National Institute of Standards & Technology (NIST).
  - Construction will begin in Fall 2008 and will last about 12 months.
Success!

- MSU listed as one of the Top 10 Universities in the South that Drive Economic Development
- Starkville listed as one the Top 10 Places in the South for Emerging Growth Industries
Questions?

More Information: http://www.research.msstate.edu/