Introduction

Mississippi State University is a leading research institution committed to assisting the state and nation increase their global competitiveness by connecting its faculty, students, and state-of-the-art equipment to industry collaborators. The university’s average research expenditure exceeds $225M annually. Recent rankings released by the National Science Foundation, based on FY11 research expenditures, confirmed that the university is ranked in the top 50 in Agricultural Science, Social Sciences, Computer Science, Engineering, and the Humanities. In addition, after a rigorous review, the prestigious Carnegie Foundation for the Advancement of Teaching awarded the university its two highest designations, Very High Research Activity University and Community Engagement Classification. Both of those awards reflect the university’s role in helping to grow local, regional, and state economies and successful collaborations with industry at all levels.

Industry Collaborations

Mississippi State’s Office of Research and Economic Development 2013 University-Industry collaboration report provides a summary of the university’s engagement with companies at local, regional, state, and international levels. The university employs its Economic Development Assistance Network (EDAN) tool and the Mississippi Agricultural and Forestry Experiment Station outreach programs to facilitate collaborations with industries. Some corporations and small businesses contract with university units for R&D and technical assistance. However, a vast majority of researchers create cross disciplinary teams to compete for external grants and contracts at state and federal levels to expand our knowledge base and to help industries increase their competitiveness in the global marketplace.

Competition for external funding to support industry outreach at state and federal levels is fierce and the amount of funding is decreasing. As a result, state level initiatives, such as HB 825, Strengthening Mississippi Academic Research Through Business Act (i.e., Smart Business), are being implemented to create incentives for companies to contract with universities for research and development assistance. At the federal level, several multi-agency grant programs have been launched to facilitate university-industry collaborations such as the cross disciplinary Rural Jobs in Innovation Accelerator (RJA) grant that was awarded to the MSU Center for Advanced Vehicular Systems Extension. The goal of the grant is to mobilize the research, community development, and entrepreneurial strengths of the university to help increase the competitiveness of businesses in automotive, agribusiness, and furniture sectors. Funding sources for the RJA includes the Appalachian Regional Commission, Delta Regional Commission, U.S. Economic Development Administration, and the United States Department of Agriculture. The remainder of this report provides a snapshot of self-reported university engagement with industry between July 2012 and June 2013.
**Methodology and Data Collection**

To identify and assess university-industry collaborations, the MSU Office of Research and Economic Development distributes a six-item questionnaire to directors of centers and institutes and the Division of Agriculture during the fall. They are asked to report on projects completed during the previous fiscal year. The survey items are the following: 1) List the name of the company that received assistance; 2) List the location of the business (i.e., city and county); 3) If available, indicate the number of employees impacted; 4) Indicate the economic impact of the services provided in U.S. dollars, if available; 5) List keywords to describe the assistance provided; and 6) Rate the outcome of the project on a scale as follows: 1=poor, 2=fair, 3=good, and 4=excellent.

During FY 2013, there were 42 centers and institutes. A total of 14 (33%) of those responded to the survey along with the Mississippi Agricultural and Forestry Experiment Station. Data were submitted by the following MSU units: Center for Environmental Health Sciences, Geosystems Research Institute, TK Martin Center for Technology and Disability, Energy Institute, Center for Computational Sciences, Franklin Furniture Institute, Mississippi Chemical Laboratory, Social Science Research Center, Raspet Flight Research Laboratory, Forest and Wildlife Research Center, High Voltage Laboratory, Center for Safety and Health, Institute for Imaging and Analytical Technologies, and Cobb Institute of Archaeology. A complete listing of Mississippi State University centers and institutes can be found at [http://www.research.msstate.edu/ci/](http://www.research.msstate.edu/ci/).

**Results**

According to data gleaned from the FY13 University-Industry collaboration survey, 510 companies were assisted. (See Appendix A). The companies ranged in size from student-led start-ups to multi-national corporations. A total of 950 projects were completed in FY13.

**Counties and Employees Impacted**

In FY13, MSU Centers and Institutes as well as other divisions completed projects across the state. (See Appendix B.) Results of the analysis revealed that MSU units completed projects in 58 or 71% of Mississippi counties. The highest number of projects completed by county was as follows: Oktibbeha (n=60); Lee (n=29); and Hinds (n=28).

**Planning and Development Districts**

There are 10 Planning and Development Districts (PDDs) across the state. The PDDs were
created in the late 1960s to help multiple municipalities access scarce resources to effectively solve problems. A wide array of programs, depending on regional needs, are offered by the PDDs including infrastructure improvements, housing, waste management, elderly assistance, strategic planning, small business development and loan programs, and grant support. Data obtained from the survey show that companies were impacted in all 10 of the Planning and Development Districts. The PDDs with the higher numbers of projects completed were Golden Triangle (n=88); Three Rivers (n=83); and Central (n=61). (See Appendix C).

**National and Global Collaborations**

Mississippi State University’s research and development capabilities are recognized throughout the United States and the world. In FY13, MSU units collaborated with industries in 35 other states, completing 193 projects. (See Appendix D).

As part of the university’s global initiative, projects were completed in Australia, Canada, Chile, China, Columbia, Japan, Mexico, Pakistan, Puerto Rico, Sweden, United Kingdom, and Uzbekistan. A total of 20 projects were completed in other countries. (See Appendix E).

**Impact of Collaborations**

The results of the analysis show that around 16,500 employees were impacted by MSU’s industry outreach programs in FY13. This is a very conservative estimate, given that several of the units failed to respond to this survey item. The highest number of employees impacted by county was as follows: Lee (2,064); Chickasaw (1,575); and Pontotoc (1,486).

**Estimated Dollar Impact of Projects**

Respondents were also asked to report the impact of the completed projects. As in previous years, data regarding the dollar value of projects completed for industry were incomplete. It may take months or years for completed projects to yield desired outcomes, thus requiring the collection of data over time. In addition, only one of the units is evaluated by an external third party. Last year the economic impact of CAVS Extension’s projects was $37,462,000 with 244 jobs either created or retained. Accurately estimating the economic impact of university-industry R&D and technical assistance programs continues to be a focus of organizations and agencies at state and national levels.

**Ratings of Completed Projects**

One of the greatest challenges facing university-industry collaborations is the lack of sustained relationships. As a result, each project completed for industry serves as a potential incentive for future collaborations. For the purpose of this report, respondents were asked to rate the outcomes of the
completed projects on a scale ranging from poor to excellent. The results of the analysis show that 598 (63%) of the 950 projects completed were rated as follows; Excellent (337/53.4%); Good 252 (42%); Fair 9 (1.5%); and Poor 0.

**Focus of MSU-Industry Collaborations**

The results of the analysis provide insight regarding the nature of the wide array of projects completed. Unit Directors were asked to use keywords to describe the research area or focus of technical assistance provided in FY13. The list of focus areas included but was not limited to the following: mobility, renewable energy, cycling test, plant layout, cotton weed management, advanced manufacturing, new product development and testing, cultural site assessment, corn hybrid trials, six sigma, soybean insect protection, health and safety consultation, water-saving irrigation, modeling and simulations, green tree retention, business plan development, human scent elimination, market assessment for new or improved products, and license agreements related to university intellectual property.

**Summary**

The results of the 2013 university-industry engagement survey were consistent with outcomes reported in previous years. Nearly 1,000 industry projects were completed in FY13. MSU centers and institutes and MAFES scientists were engaged with industries throughout the state. Companies operating in two-thirds of Mississippi counties collaborated with MSU. Projects were completed for companies in over half of Mississippi counties. It is also important to note that the companies assisted ranged in size from student start-ups to multi-national corporations. Moreover, the results of an overwhelming majority of the projects completed received a rating of excellent or good.

For additional information regarding the results of the Mississippi State University FY 2013 University-Industry Engagement Report, please contact:

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**Associate Vice President for Economic Development**  
**Mississippi State University**  
662.325.3570  
mray@research.msstate.edu
Appendix A: Companies Assisted

3A Composites USA
A Place Imagined
A Taste of Gourmet
ABB Inc.
Abdon, Johnny
Adisseo
Advanced Distributor Products
Advanced Microbial Solutions, LLC
Affordable Furniture
Affordable Furniture Manufacturing Company, Inc.
Agilent Technologies
AgReliant Genetics
Akin Industries
Akin, A Joerns Healthcare Company
Alan White Manufacturing
Albany Industries
Alberdingk Boley, Inc.
Alpha Bio Systems, Inc
Alpine Custom Homes
Aluma-Form, Inc.
American Association of Retired Persons (AARP)
American Containers
American Furniture Mfg.
American Home Furnishing Alliance
American Leather
American Nonsmoker's Rights Foundation
American Power Source
AMVAC Corporation
Andersen Corporation
Anel Corp.
AquAeTer, Inc
Aquatic Ecosystem Restoration Foundation
Arbor Rite/Hite
Architectural Testing, Inc.
Arclin
Argen
Armstrong Cabinet Products
Arnaut Woodworks
Ashland Hercules Water Technologies
Ashley Furniture Industries
Ashley Industries
Aurora
Aurora Casket Company
Aurora Flight Sciences
Axess Direct, Inc., Cozy Mattress
AZZ/ Calvert Company
AZZ/ CGIT System
Babson College
Baldwyn Nursing Home
BancorpSouth Bank
Bandit Lures
Barge Forest Products
BarSiC
BASF Chemical Company
Batesville Casket Company
Bauhaus USA, Inc.
Baxter Healthcare
Bayer CropScience
Bayer Environmental Science
Bear Forest Products
Bechtel, Inc.
Bedford Care Ctr Monroe Hall
Bedford Care of Mendenhall
Bedford Care of Petal
Beneke Magnolia, Inc.
Biate's Interior Design
Billy Mac Catfish Co.
Bio Huma Netics, Inc
BioBased US LLC
Bioenergy LLC
Biohorizons, Inc.
BioSoil Enhancers, Inc.
Black Water Energy
Blue Cross Blue Shield of Mississippi
Bluff Springs Paper Knox Road
Bluff Springs Paper Main Site
Bradex
Brown, Karla
Brown, Noel
Buckman Laboratories, Inc.
Burford Electric Service
Burrows Paper Co.
C&M Maintenance, Inc
California State Beekeepers' Association, Inc. (CSBA)
Calvert-Spradling Engineers
Camelia Estates
CANA, Inc.
Canton Concrete
Capital Resources
Capps Technology Center / Delta Community College
Care Center of Laurel
Carnes Frames, Inc.
Carpenter Co.
CBF
CertiPUR-US
Charter Furniture
CHEMCO, INC.
Chemtura USA Corporation
Chickasaw Containers
China National Furniture Association
Choctaw Coal
Closure Systems International
Clovelly Oil Co. LLC
CMI, Inc.
Coastal Carolina Wood Products
Cobblestone Millwork
Columbia Construction Co.
Columbia Flooring/Mohawk Industries
Columbus Marble
Columbus-Lowndes Dev LINK
Combined Resources Intl.
Comfort Power
Community Development Foundation
Compton Engineering Inc
Concepts in Production
Confortaire
Consolidated Grain and Barge Company
Consolidated Renewal Services
Contract Fabricators
Convergent Science, Inc.
Cook Coggin Engineers, Inc
Cool Smart Planet
Cooper Tire, Inc.
Copiah Lumber
Corn Board Manufacturing Inc.
Cotton Incorporated
Country Road
Cox Industries
Crop Production Services
Crosslink
Crow Works
Crown Restaurant, The
Custom Works Distinctive Carpentry, Inc.
Cymbionic, Inc.
CYTEC
Dauerholz AG
Décor Cabinet Co.
Delta Community College
Delta F.A.R.M.
Demetra Cabinetry, Inc.
DeSoto Council
Developmental Industries
Dexter Transport
DMI Furniture, Inc.
Double G Coatings
Dow AgroSciences, LLC
Dow Chemical Co.  
Dow Chemical Co. Coating Materials  
Dreamwood Designs, Inc.  
DSM  
Dugan Memorial Home  
DuPont  
DuPont Crop Protection  
DuPont De Nemours & Company (E. I. DuPont)  
Durfold, Inc  
Earth's Friend Furniture  
Eastman Chemical  
Eaton Custom Seating  
Elanco Animal Health (Animal Health Clinical Research)  
Elements  
Elev-Barkley Engineering and Architecture  
Emerald Home Furnishings  
Endura Products, Inc.  
Engineering Service  
Entergy  
Environmental Auditors Of America, Inc  
Environmental Compliance Services  
EnviroPlasitics Corporation  
Evergreen Engineering, Inc.  
Falcon Products  
Fandeli International Corporation  
FCI Lompoc  
Federal Solutions, LLC  
FFM, Inc.  
Fibre Craft  
Field Metrics, Inc.  
Flanders, Inc.  
Fleischmann's Yeast  
Flexsteel Commercial Seating Division  
Flexsteel Industries  
Flight Attendants Medical Research Institute, Inc.  
FMC Corporation  
FPInnovations - Wood Products Division  
Franklin Corporation  
French Market Collection  
Fusion Furniture  
GE Aviation  
General Electric  
General Recycling  
Genics, Inc.  
Georgia Pacific  
Georgia Tech  
Georgia-Pacific  
Glenn Machine Works  
Gold, Weems, Bruser, Sues & Rundel  
Golden Chair  
Golden Pyramids Plaza Corporation  
Golden Triangle Planning & Development District  
Graham Lumber  
Gray Falcon Manufacturing  
Greenhaw, Lance  
Grenada Co. Economic Dev.  
Gulf States Manufacturers  
Gypsum, LLC  
H.S.I. Corp.  
Habitat for Humanity Mississippi Gulf Coast  
Hanes Industries  
Hankins, Inc.  
Harloff  
Harrelson & Associates  
Harris Properties, LLC  
Harrison Manufacturing  
Hattiesburg Paper  
Headrick Signs & Graphics  
Hederman Brothers, LLC  
Hickok Supreme Electronics  
Hickory Springs Mfg.  
HM Richards  
Hodges Wood Products  
Hoener Box  
Holiday Inn & Suites  
HomeStretch  
Horticultural Research Institute
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<td>INEOS Melamines</td>
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<td>Ingalls Shipbuilding</td>
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<td>Innovative Wood</td>
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<td>McCrorie Wood Products</td>
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<td>MCI Industries/Polo Custom Products</td>
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<td>McNelly Plastics</td>
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<td>MDEQ</td>
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<td>Memphis Plywood Corporation</td>
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MEP MS
Mesonite
Metairie Cabinet Tops
Metals USA
Mid-South Baking
MightyGrow, Inc.
Milestone Cooperative Association
Mississippi Alliance of Boys & Girls Clubs
Mississippi Corn Promotion Board
Mississippi Forestry Association
Mississippi Institute for Forest Inventory
Mississippi Land, Water, and Timber Resources Board
Mississippi Marine Corp
Mississippi Ornithological Society
Mississippi Peanut Growers Association
Mississippi Phosphates
Mississippi Polymer Institute
Mississippi Turfgrass Association
Mississippi Health Advocacy Program
MJB Wood Group
MMM
Monroe County Board of Supervisors
Monsanto Company
Montgomery Wood Works
MS Business Finance Corp.
MS Ctr for Safety & Health
MS Dept. of Agriculture
MS Development Authority
MS Economic Development Council
MS Manufacturers Assn
MS Peanut Promotion Board
MS Power
MS Rice Promotion Board
MS Soybean Promotion Board
MS World Trade Center
Multicraft
My Brother's Keeper, Inc.
N. Mississippi Medical Center

N.P.Sway, LLC
National Corn Growers Association
National Council for Air and Stream Improvement, Inc.
National Honey Board
National Peanut Board
Navistar Defense
Netterville Lumber
NewSouth NeuroSpine Clinic
Nissan NA
NISUS Corporation
North American Coal
North MS Industrial Dev Assn
Northwest MS Community College
Nucraft Furniture Co.
Nunley Trucking Co.
NunoErin
Nyloboard, LLC
Odom Industries
Ohio Wooden Bench
Omicron
Oriental Agrotech Private LTD
Osborne Wood Products, Inc.
Osmose, Inc.
Overseas Hardwoods
Oxford Trading Group
PACCAAR Engine Company
Pacific Furniture Industries
Palliser Furniture Upholstery
Palsode
Parker Towing Inc.
Paul Robert, Inc.
Pearl River Lumber
Pearl River Valley Water Supply District
Pelican River Watershed District
Pernell's Repairs
Pfizer Animal Health
Pickering Engineering
Piedmont BioProducts, LLC
Pioneer Hi-Bred International
Planet Saver Industries, LLC
Plunkett Distributing
Popp's Ferry Outpatient Clinic
Porvair plc
Power South Energy Coop.
Prairie Construction, LLC
Pratt and Whitney
Preflex S.A.
Pregis Corp.
Prentiss Recycling
Prentke Romich Company
Prime Design
Primos Hunting
Process Engineering Corp.
PROKITCHENS
Purnell, Robert
Quality Manufacturing Group
Railway Tie Association
Raytheon Systems
Real Food Gulf Coast
Rehrig Pacific
Reman - Decatur
Reman - Polkville
Repreeve Renewables, Inc
Rfs Protech, LLC./Ogden-Group
Richardson Moulding
RISC
Riverbanks Zoo and Gardens Conservation Support Fund
Riverhead Building Supply
Rodgers Townsend advertising agency
Ron Terry Construction
Rose Hill Company
Royal Switchgear Manufacture
Ruffin & Payne, Inc.
Ruleville Nursing and Rehab
Samarkand Lamit, Ltd.
Sanderson Farms
Sanson, Inc.
Sapporo Chuosuisan Co., LTD
Sargent Mill Woodworking, LLC
Sauder Woodworking Co.
Savery LLC
SCI Millwork
Seago Lumber
Sealy Mattress
Selex Galileo
Semisouth Labs
SePRO Corporation
Severstal
Shaw Industries Group, Inc.
Shimadzu
Shuangliang Eco-Energy
Shuqualak Lumber Planner Mill
Shuqualak Lumber Sawmill
Shuqualak Lumber Sunbelt Shave.
Signet Maritime Corp
Simmons Catfish
Siwell Dental Clinic
SixOaks Wood Working
Slick Rick's Foods, LLC
Sly, Inc
SmartSensecom Incorporate
Sole Cushion, Inc.
Southern Agcredit
Southern Motion - Cushions
Southern Motion
Southern Motion - Recliner
Southern Quality Meats
Southern States LLC
Southwire Co.
Spatial Information Solutions
Springs Window Fashions
Standard Industrial
Stark Aerospace
Steel Services
Steel Services Plant #2
Steel Services Plant #3
Stiles Machinery, Inc.
Stine, Inc
Structural Steel Plant #6
Structured Fibres, Inc.
Sturgis Mat
Sunshine Mills
Syngenta Crop Protection, Inc.
Syngenta Seed Inc.
T & L Specialty
Tacket Farms
TACKL Technologies
Target Corporation
Terral Seed, Inc.
Terrracon, Inc
Texas Corn Producers Board
The Can Man recycling Center
Three Rivers PDD
Thyssen Krupp Elevator Mfg.
Tina Hofer Design Studio
Tishomingo Co. Dev. Foundation
TRI-C Wood Products
Tronox
Truck Bodies Equipment Intn.
Tupelo Automotive Museum
Tupelo Furniture Market
Tupelo Nursing Home
Turner Electric
U.S. Small Business Administration
United Furniture Industries
United Soybean Board
United States Marine, Inc
URETEK ICR Corp.
Valent BioSciences Corp.
Vaughan-Bassett Furniture Co.
Vianee, LLC
Villeroy & Boch
Waggoner Engineering, Inc
Water's Edge Woodworking Academy
Watkins Shepard Trucking
WB Brawley Co.
Weavexx
Weima America
West Jones Recycling
Weyerhaeuser
Weyerhaeuser NR Company
Williams-Sonoma
Winfield Solutions/Croplan Genetics
Women's Fund of Mississippi
Woodwork Shop, Inc., The
Woodwork Shop, Inc., The
Worshan Brothers Construction
Zavation LLC
APPENDIX B:

MSU-INDUSTRY COLLABORATIONS:
NUMBER OF COMPLETED PROJECTS BY COUNTY (FY 13)

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APPENDIX D:

MSU-INDUSTRY COLLABORATIONS:
NUMBER OF COMPLETED PROJECTS BY STATE (FY 13)

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APPENDIX E:

MSU-INDUSTRY COLLABORATIONS:
INTERNATIONAL PARTNERS

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