In Fiscal Year (FY) 2018, the National Science Foundation made $21,791,000 in awards to Mississippi in support of fundamental research, advanced technical education, entrepreneurial training, STEM teacher training, long-term ecological monitoring, small business development, major research instrumentation and more.

DID YOU KNOW?

DISCOVERY | Organic semiconductors (OSCs) are a class of materials that combine the electronic properties of semiconductors with the chemical and mechanical properties of organic compounds, such as polymers. OSCs have unique characteristics and offer fundamentally new approaches to harvest energy, making them increasingly interesting for a range of emerging technology applications, including sustainable energy, electronics and biomedicine. At Mississippi State University, a new interdisciplinary material research center called the Center for Emerging Molecular Optoelectronics (CEMOs) will be formed with funding from NSF. Through this Center, the project will share resources and leverage partnerships among Mississippi institutions of higher learning, national laboratories, and industry as well as establish national and international collaborations to strengthen the research capacity and to build and train an inclusive workforce in optoelectronics.

STEM WORKFORCE DEVELOPMENT | NSF funds the Louis Stokes Mississippi Alliance for Minority Participation (LSAMP) program that aims to increase the quality and quantity of students successfully completing science, technology, engineering and mathematics (STEM) baccalaureate degree programs, and increase the number of students interested in, academically qualified for, and matriculated into programs of graduate study. LSAMP supports approaches that facilitate achievement of a long-term goal of increasing the number of students who earn doctorates in STEM fields, particularly those from populations underrepresented in those fields.

SUPPORTING STUDENTS | Mississippi’s Delta State University (with funding from NSF) will host a science teacher workshop in June 2019. The workshop is designed to focus on Mississippi’s science curriculum and is a hands-on, inquiry-based program designed to show teachers how to effectively engage students in science learning and improve science teacher efficacy.

SCIENCE & ENGINEERING INDICATORS | 2.33 percent of the Mississippi workforce is employed in S&E occupations, and 6.31 percent of Mississippi business establishments are industries with high employment in science, engineering and technology (SET) occupations.

COMPETITIVE RESEARCH | $21,791,000 in awards to Mississippi academic institutions through NSF’s Established Program to Stimulate Competitive Research (EPSCoR), which promotes scientific progress in states that have traditionally received lesser amounts of NSF R&D funding.

$21,791,000
Total NSF awards to Mississippi in FY18

$17,531,000
Amount invested in fundamental research in Mississippi in FY18

$4,260,000
Amount invested in STEM education in Mississippi in FY18

$5,740,000
Amount dedicated to stimulating competitive research in Mississippi through NSF EPSCoR

TOP 3 NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY18

$10,467,285
Mississippi State University

$4,914,000
Jackson State University

$3,406,383
University of Mississippi

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