



FAST FACTS

\$67,952,000

Total NSF awards to South Carolina in FY19

\$55,084,000

Amount invested in fundamental research in South Carolina in FY19

\$12,508,000

Amount invested in STEM education in South Carolina in FY19

\$225,000

Amount invested in South Carolinian startups through NSF's small business program in FY19

\$9,050,000

Amount dedicated to stimulating competitive research in South Carolina through NSF EPSCoR

TOP 3 NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY19

\$20,060,000

University of South Carolina at Columbia

\$20,058,000

Clemson University

\$1,718,000

Furman University

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NSF & SOUTH CAROLINA

In Fiscal Year (FY) 2019, the **National Science Foundation made \$67,952,000 in awards** to South Carolina 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 | The **University of South Carolina's NSF-funded initiative for Materials Assembly and Design Excellence in South Carolina (MADE in SC)** will combine computational and experimental methods to break new ground in advanced materials design. The project is advancing fundamental knowledge of complex materials, while simultaneously working toward the development

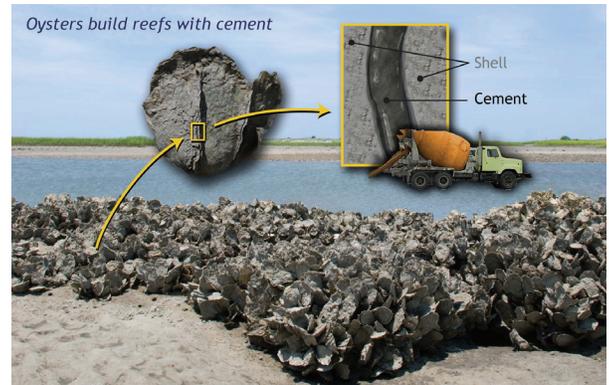
of products with valuable commercial applications, such as improved lasers, water treatment and regenerative medicine. MADE in SC is making major investments in South Carolina's research capacity, as the initiative is acquiring state-of-the art instrumentation and computing capabilities and hiring new faculty researchers at institutions across the state. In parallel with its research agenda, MADE in SC will also work to improve the STEM education capacity in South Carolina through college curriculum improvements and professional development activities for high school teachers.

STEM WORKFORCE DEVELOPMENT | In response to South Carolina's growing need for skilled diesel technicians **NSF's Advanced Technological Education program** has partnered with Northeastern Technical College and developed a teaching model for high schoolers interested in rural technician education. The program has given Northeastern Technical College the ability to collaborate with rural high school districts and industry partners to minimize barriers for the recruitment and retention of rural students. This model is producing highly skilled technicians who have a state-of-the art education and the skill set required for a successful future. Students that complete the program are ready for work with industry partners and are contributing to the nation's skilled technical workforce.

SUPPORTING STUDENTS | Through NSF's **Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program**, over a five-year period, 316 high-achieving, low-income transfer students with demonstrated financial need at Spartanburg Community College, Trident Community College, and Clemson University will be awarded scholarships to pursue bachelor degrees in engineering or computing. This project will increase the recruitment, retention, academic success, and graduation rates of these students who begin their academic path at community colleges and transfer into engineering and computing degree programs at four-year institutions.

SCIENCE & ENGINEERING INDICATORS | **3.67% of the South Carolina workforce is employed in S&E occupations**, and 7.30% of South Carolina business establishments are industries with high employment in science, engineering and technology (SET) occupations.⁺

COMPETITIVE RESEARCH | **NSF made \$9,050,000 in awards** to South Carolina academic institutions through NSF's Established Program to Stimulate Competitive Research (EPSCoR). EPSCoR promotes scientific progress in states that have traditionally received lesser amounts of NSF research and development funding.



Oysters build their reefs--such as this one on the South Carolina coast--using a specialized cement, one that differs in composition from their shells, as well as from other marine organism adhesives.

Image Credit: Zina Deretsky, National Science Foundation; photos by Jonathan Wilker, Purdue University

⁺ National Science Board, National Science Foundation. 2020. Science and Engineering Indicators 2020: The State of U.S. Science and Engineering. NSB-2020-1. Alexandria, VA. Available at <https://ncses.nsf.gov/pubs/nsb20201/>.