NSF & IOWA

FAST FACTS

$45,637,000
Total NSF awards to Iowa in FY19

$37,892,000
Amount invested in fundamental research in Iowa in FY19

$7,745,000
Amount invested in STEM education in Iowa in FY19

$1,272,000
Amount invested in Iowan startups through NSF's small business program in FY19

TOP 3 NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY19

$28,427,000
Iowa State University

$28,427,000
University of Iowa

$999,000
University of Northern Iowa

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In Fiscal Year (FY) 2019 the **National Science Foundation made $45,637,000 in awards** to Iowa 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.

NSF-funded scientists from Iowa State University are studying the genetic diversity of individual cotton species to help improve crop yield.
Credit: Photo by David Nance, USDA Agricultural Research Service

DID YOU KNOW?

DISCOVERY | NSF funded a three-project collaboration with the **Iowa Children's Museum, the University of Iowa**, and the University of Washington to develop and conduct research on a 3,000 square foot exhibit for the museum audience to provide hands-on experiences both about the science of motion (forces, acceleration, friction, balance, etc.) and about how the science relates to designing skateboard parks. The project's primary goal is to increase children's interest in, engagement in, and understanding of STEM through collaborative, playful tinkering and modeling. The project partnership will build regional and national communities of practice to advance and support early informal STEM education.

STEM WORKFORCE DEVELOPMENT | Iowa State University received an award from NSF's Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program to increase diversity in the professional STEM workforce and academia. In addition to implementing a student experience model program designed to increase the success of students, the program provides scholarships to a diverse population of low-income, academically talented students to study Electrical, Computer, and Software Engineering (ECSE) with the inclusion of cyber-security at Iowa State University (ISU), **Des Moines Area Community College (DMACC), and Kirkwood Community College (KCC)**. The project plans to award 272 scholarships in an effort to create an inclusive learning environment for Iowa students.

SUPPORTING STUDENTS | Through a National Science Foundation Research Traineeship (NRT) award, the **University of Iowa** is training a new generation of water sustainability professionals to promote sustainable development of food, energy and water resources in underserved communities, not only as researchers and professors, but also as entrepreneurs, consultants, and civic, professional, and global engineers. The complex interconnectivity of society's food, energy and water resources, as well as their inextricable link to socioeconomic factors, present both grand challenges and opportunities that demand new paradigms in problem solving and cooperation across non-traditional disciplines. Nowhere will this challenge be greater than in resource-constrained communities, not only in the developing world but also in the often-overlooked populations of rural America and poor urban centers, where solutions to food/energy/water challenges will need to be tailored to specific communities. The ultimate goal of this research is to re-envision STEM graduate education in fields related to water sustainability at the nexus of food and energy resources.

SCIENCE & ENGINEERING INDICATORS | 3.77 percent of the Iowaan workforce is employed in S&E occupations, and 6.20 percent of Iowan business establishments are industries with high employment in science, engineering and technology (SET) occupations.+

COMPETITIVE RESEARCH | NSF made $44,365,000 in awards to Iowa's academic institutions.

+ 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/.