# NSF & MICHIGAN

## FAST FACTS

**$241,546,000**
Total NSF awards to Michigan in FY19

**$218,861,000**
Amount invested in fundamental research in Michigan in FY19

**$22,684,000**
Amount invested in STEM education in Michigan in FY19

**$5,582,000**
Amount invested in Michigan startups through NSF's small business program in FY19

## TOP 3 NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY19

**$107,826,000**
University of Michigan

**$95,288,000**
Michigan State University

**$8,977,000**
Michigan Technological University

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In Fiscal Year (FY) 2019, the **National Science Foundation made $241,546,000 in awards** to Michigan 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.

The mission of the W.K. Kellogg Biological Station (KBS) is to increase understanding of natural and managed ecosystems and their linkages to society.
**Image Credit:** W.K. Kellogg Biological Station

## DID YOU KNOW?

**DISCOVERY | The University of Michigan's Panel Study of Income Dynamics** (PSID) is a cornerstone of data infrastructure for social science research in the United States. This NSF-funded study has used a series of surveys to gather information on U.S. families since 1968. Children and grandchildren from the original PSID families now participate as well; the result is data that follows families through several generations and allows research about how people and families grow and change over time. This includes the study of economic outcomes such as employment, income, and wealth, research on how early life experiences affect employment and health in adulthood.

**STEM WORKFORCE DEVELOPMENT |** With an emphasis on two-year colleges, NSF's Advanced Technological Education (ATE) program focuses on the education of technicians for the high-technology fields that drive our nation's economy. At **Macomb Community College, the Resource Center for Advanced Automotive Technology** (CAAT) maintains, grows, and distributes a library of open source, industry approved curriculum resources that are aligned with the knowledge and skills needed by today's technicians in the automotive industry. CAAT's leadership team works closely with auto designers, manufacturers, and parts suppliers to determine emerging education needs, to ensure that the materials shared through CAAT continue to educate graduates who meet employer needs.

**SUPPORTING STUDENTS | NSF made $12,888,165 in awards in FY 2019 in support of graduate students** through NSF's flagship Graduate Research Fellowship Program, which supports students pursuing master's and doctoral degrees in STEM disciplines.

**SCIENCE & ENGINEERING INDICATORS | 5.88% of the Michigan workforce is employed in S&E occupations** and 7.75% of Michigan business establishments are industries with high employment in science, engineering and technology occupations.[+]

**COMPETITIVE RESEARCH | NSF made $234,462,000 in awards** to Michigan's academic institutions in FY 2019.

**FACILITIES |** The NSF-supported National Superconducting Cyclotron Laboratory (NSCL) at **Michigan State University** allows scientists from all over the world to make scientific discoveries about the inner workings of atoms and their role in the universe. Basic scientific research in nuclear physics not only probes the origins of elements and the creation of planets, it has also led to breakthroughs in medical treatment such as proton therapy, a cutting-edge cancer treatment. As the nation's largest university-based user facility for nuclear physics, NSCL also provides unique hands-on learning opportunities for educating the next generation of nuclear scientists, accelerator physicists, and engineers.

[+] 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/.