MICHIGAN

FY 2021 Fast Facts

- **$208,366,000**
  - Total NSF Awards to Michigan

- **$176,333,000**
  - Invested in Fundamental Research in Michigan

- **$32,033,000**
  - Invested in STEM Education in Michigan

- **$5,658,000**
  - Invested in Michigan startups

Top NSF-funded Academic Institutions for FY 2021

- **$100,611,000**
  - University of Michigan

- **$67,306,000**
  - Michigan State University

- **$10,743,000**
  - Michigan Technological University

NSF By The Numbers

The National Science Foundation (NSF) is an **$8.8 billion** independent federal agency created by Congress in 1950 to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense. NSF’s vital role is to support basic research and researchers who create knowledge that transforms the future.

- **93%**
  - Funds research, education and related activities

- **$8.8B**
  - FY 2022 Enacted

- **43,600**
  - Proposals evaluated

- **2,000**
  - NSF-funded institutions

- **11,300**
  - Number of awards NSF funds each year

- **318K**
  - People NSF supported

- **$1.5B**
  - STEM education

- **$181M**
  - To seed public/private partnerships

- **253**
  - NSF-funded Nobel Prize winners
NSF-funded COVID-19 Research and Recovery

Research at the University of Michigan supported by NSF will help identify and categorize different strains of the coronavirus that causes COVID-19. Using machine learning, researchers will be able to identify what genetic material is shared between different strains and to identify the key differences in sub-types of the virus. Understanding the genetic variations between different strains of the virus is critical for developing vaccines, tests or other medical therapies that can be effective against all types of the virus, as well as for tracking and understanding its evolution as it spreads.

STEM Education

NSF’s CyberCorps® Scholarship for Service is a scholarship program designed to recruit and train the next generation of information technology professionals to meet the needs of the cybersecurity mission for federal, state, local and tribal governments. All scholarship recipients must work after graduation for a government organization in a position related to cybersecurity. Davenport University’s CyberCorps® SFS program is addressing the shortage of cybersecurity professionals in Michigan and across the U.S. by preparing highly qualified cybersecurity professionals for entry into the government workforce.

Research Driving Innovation

The Civic Innovation Challenge is a multi-agency, federal government research and action competition that aims to fund ready-to-implement, research-based pilot projects that have the potential for scalable, sustainable and transferable impact on community-identified priorities. The NSF-supported Helping Rural Counties to Enhance Flooding and Coastal Disaster Resilience and Adaptation project, led by Michigan Technological University, will work with two counties in the Upper Peninsula of Michigan, or the UP, to develop methods that use remote-sensing data resources and citizen engagement (crowdsourcing) to address current data gaps for improved flood hazard modeling and visualization that is transferable to rural communities in the western UP of Michigan. The project partners include the University of Washington, Western Upper Peninsula Planning & Development Region office and Keweenaw Bay Indian Community Natural Resources Department.

Infrastructure

Michigan State University is home to the NSF National Superconducting Cyclotron Laboratory, a national user facility with the mission to allow scientists from all over the world to make scientific discoveries about the inner workings of atoms and their role in the universe.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, Michigan ranks 5th in the nation for Business R&D performance. Visit Michigan’s science and engineering state profile to learn more!

- 6.04% of Michigan’s workforce are employed in S&E occupations.
- 34.52% of Michigan’s higher education degrees are concentrated in S&E fields.

Learn More

COVID RELIEF - Congress provided NSF with funding to prevent, prepare for, and respond to COVID-19 in the CARES Act of 2020 and the American Rescue Plan (ARP) Act of 2021. For more information on NSF-funded COVID-19 research and recovery, visit NSF’s award database for CARES Act and ARP awards, and NSF’s Toolkit for COVID funding updates.

NSF FACT SHEETS – NSF provides fact sheets about the agency and its bold investments in basic research. These fact sheets profile NSF investments in research across all fields of science and engineering, including quantum, artificial intelligence, and advanced manufacturing, and the NSF-supported research and computing infrastructure powering the U.S. response to COVID-19.

CONNECT WITH NSF – For more information on NSF’s impact in your state, please contact NSF’s Office of Legislative and Public Affairs at congressionalteam@nsf.gov.