MICHIGAN

FY 2023 Fast Facts

$262,641,000
Total NSF Awards to Michigan

$205,630,000
Invested in Fundamental Research in Michigan

$48,717,000
Invested in STEM Education in Michigan

$8,837,000
Invested in Michigan Businesses

Top NSF-funded Academic Institutions for FY 2023

University of Michigan
$132,296,000

Michigan State University
$66,196,000

Michigan Technological University
$15,188,000

NSF By The Numbers

The U. S. National Science Foundation (NSF) is an $9.06 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.

DID YOU KNOW? NSF has funded the work of **261** Nobel Prize winners over 75 years.

$9.06B
FY 2024 Total Enacted

93% Funds research, education and related activities

11K Awards

1.9K Institutions

353K People

Data represents FY 2023 Actuals unless otherwise indicated

Expanding the Frontiers of Science

Water resources around North America are under threat as climate change intensifies floods and droughts, worsens water quality, exacerbates shoreline erosion and damages infrastructure and homes. Communities must learn to adapt to increased extremes, but the tools and knowledge for adaptation are often nonexistent or fragmented across jurisdictional boundaries. This problem is complicated in transboundary water systems that intersect multiple sovereign nations, including those of Indigenous peoples. The Global Center for Climate Change Impacts on Transboundary Waters leads research focused on understanding and mitigating water crises in transboundary jurisdictions. The center aims to increase the resilience of vulnerable coastal communities through research on (1) reliable projections of the expected frequency and intensity of climate change impacts; (2) understanding of climate change impacts on ecological and social systems and outcomes; and (3) building capacity for governance and management systems that increase disaster resilience in communities across multiple scales. The center is a partnership among the **University of Michigan**, Cornell University, College of the Menominee Nation, and Red Lake Nation together with McMaster University, Toronto Metropolitan University and the Six Nations of the Grand River.

STEM Education and Broadening Participation

Recognizing the value of systematic and effective evaluation and current and emerging issues in educating a skilled technical workforce, the Evaluation Hub for Advanced Technological Education (EvaluATE) at **Western Michigan University** supports a comprehensive effort to provide evaluation support services and materials/resources for the NSF Advanced Technological Education (ATE) program and its community of principal investigators, evaluators, project staff and other stakeholders. EvaluATE seeks to advance and sustain a community in which evaluation is valued, systematic, effective and used to improve the education of practitioners in advanced technological fields. In conjunction with programmatic evaluation activities, EvaluATE also conducts studies to advance knowledge about evaluation practices with a focus on diversity, equity, inclusion and accountability. The project aims to address and document the needs of the ATE community for current and emerging evaluation of the ATE program and technician education, more broadly.

Regional Innovation Engines

U.S. National Science Foundation Regional Innovation Engines (NSF Engines) Development Awards help organizations create connections and develop their local innovation ecosystem within two years to prepare a strong proposal for becoming a future NSF Engine. The program seeks regional teams rooted within industry, academia, government, nonprofits, civil society and communities of practice to catalyze and foster innovation ecosystems across the U.S. to advance critical technologies, address national and societal challenges, promote economic growth and job creation, spur sustainable regional innovation and nurture diverse talent.

To stay in the loop about future funding calls and opportunities to engage, sign up for the NSF Engines newsletter.

NCSES

According to the NSF National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, Michigan ranks 6th in the nation for total R&D performance. Visit Michigan's science and engineering state profile to learn more!

36.43% of **Michigan's** higher education degrees are concentrated in S&E fields.

6.04% of **Michigan's** workforce is employed in S&E occupations.

13.48% of **Michigan's** total employment is attributable to knowledge - and technology - intensive industries.

Learn More

CHIPS & SCIENCE – The CHIPS and Science Act's investments in the U.S. National Science Foundation will help the United States remain a global leader in innovation. Implementation of this legislation will be key to ensuring that ideas, talent and prosperity are unleashed across all corners of the nation. For more information, please visit the NSF CHIPS and Science website.

RESEARCH SECURITY – NSF is committed to safeguarding the integrity and security of science and engineering while also keeping fundamental research open and collaborative. NSF seeks to address an age of new threats and challenges through close work with our partners in academia, law enforcement, intelligence and other federal agencies. By fostering transparency, disclosure and other practices that reflect the values of research integrity, NSF is helping to lead the way in ensuring taxpayer-funded research remains secure. To learn more, please visit the NSF Research Security website.

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