



U.S. National
Science Foundation



NSF 75
YEARS OF
INNOVATION

2025 marks the 75th anniversary of NSF. Throughout the year, the agency will host in-person and virtual activities to commemorate this significant milestone. For more information, visit: [nsf.gov/75years](https://www.nsf.gov/75years)

MICHIGAN

● FAST FACTS



\$242,139,000

Total NSF Awards to Michigan



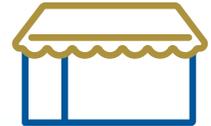
\$195,190,000

Invested in Fundamental Research in Michigan



\$37,161,000

Invested in STEM Education in Michigan



\$4,671,000

Invested in Michigan Businesses

● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

University of Michigan
\$139,729,000

Michigan State University
\$54,155,000

Michigan Technological University
\$6,937,000

● NSF BY THE NUMBERS

The U.S. National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 to promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense. To fulfill this vital role, NSF supports basic research and researchers who create knowledge that transforms the future.

DID YOU KNOW? NSF has funded the work of **268** Nobel Prize winners over 75 years.



\$9.06B
FY 2024
Total Enacted

92%
Funds research, education and related activities



11K
Awards



1.9K
Institutions



358K
People

"Data represents FY 2024 Actuals unless otherwise indicated"



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INNOVATION | *Generating new knowledge that provides a greater understanding of the world around us*

Funded through the NSF Global Centers program, the International Research Center for Enhancing Plant Resilience brings together researchers at **Michigan State University** and at institutions in Canada, Finland, Japan, the Republic of Korea and the United Kingdom to address the critical challenge of stabilizing global food production amid unpredictable weather patterns. By integrating international expertise and resources, the center develops new, natural products from plants and microbes. Harnessing these products will enhance plant and soil health, ensure crop productivity despite increasing environmental stressors, and reduce reliance on non-sustainable practices like synthetic fertilizers and extensive irrigation. The center also engages industry and agricultural stakeholders to ensure that the developed solutions are practical, scalable and adopted widely. This center is jointly supported by NSF, Canada's Natural Sciences and Engineering Research Council and Social Sciences and Humanities Research Council, the Japan Science and Technology Agency, the National Research Foundation of Korea and U.K. Research and Innovation.



EXPANDING FRONTIERS | *Generating institutional capacity, new technologies and societal impact*

The object of an NSF Pathway to Enable Open-Source Ecosystems Phase II project at the **University of Michigan** is to further develop the ecosystem for the Open-Source Leg prosthesis, which gives researchers access to a fully capable, standardized hardware and software platform. The intent of the Open-Source Leg is to lower the barrier to studying the challenges of controlling robotic prosthetic legs, which is among the greatest obstacles hindering their widespread use and clinical impact. The Open-Source Leg enables researchers to more easily study and compare different control strategies without the prohibitive cost of developing a robotic leg from scratch. In this phase of the project, the project team is developing educational resources and community events, enhancing the open-source infrastructure, and assessing the effectiveness and sustainability of the Open-Source Leg ecosystem to ensure its success and long-term sustainability.



EDUCATION AND WORKFORCE | *Supporting our STEM talent of today and tomorrow*

Training the next generation of the STEM workforce requires experienced science teachers who can provide mentoring and professional guidance to their colleagues. These teacher leaders are particularly valuable in high-need school districts. To meet this challenge, the NSF Robert Noyce Teaching Scholarship Program project at **Michigan Technological University** seeks to recruit and prepare 30 new STEM teacher leaders over a six-year period for service in high-need Michigan schools. In conjunction with the development of an online master's degree program designed for STEM teachers, this project provides a proven, effective pathway to train practicing teachers to serve as effective mentors and leaders in their schools. The project leverages partnerships with Northern Michigan University, Copper Country Intermediate School District, Kalamazoo Public Schools, Kentwood Public Schools, Marquette-Alger Regional Education Service Agency, Menominee County Intermediate School District, Midland Public Schools and the Upper Peninsula Center for Educational Development.

ON THE CUTTING EDGE

NSF is pushing the boundaries of what is possible in today's most important technology areas, including [artificial intelligence](#), [quantum information science](#), and [biotechnology](#). The Foundation also maintains industry-leading, [state-of-the-art facilities](#) around the world.

NCSES

The [National Center for Science and Engineering Statistics \(NCSES\)](#) within the U.S. National Science Foundation is the nation's leading provider of statistical data on the U.S. science and engineering enterprise. As a principal federal statistical agency, NCSES conducts nationally representative surveys and publishes objective data and reports on topics related to research and development, the science and engineering workforce, and STEM education. For example, in FY 2024, **Michigan** invested **\$25,795,000,000** on research and development.

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

LEARN MORE

- **BROUGHT TO YOU BY NSF** – NSF has invested in discoveries, inventions, and innovations that have shaped the modern world, including the internet, 3D printing, American Sign Language, Magnetic Resonance Imaging (MRI), deep sea exploration, Doppler radar and more. For more information on NSF impacts, please visit: [nsf.gov/impacts](https://www.nsf.gov/impacts).
- **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 [NSF's Research Security website](#).
- **FOSTERING INNOVATION** – Every year, NSF funds around 400 companies across nearly all technology areas to create prototypes and commercialize technologies. Learn more at [seedfund.nsf.gov](https://www.seedfund.nsf.gov).