



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)



NEW YORK

● FAST FACTS



\$560,670,000

Total NSF Awards to New York



\$446,694,000

Invested in Fundamental Research in New York



\$94,554,000

Invested in STEM Education in New York



\$18,117,000

Invested in New York Businesses

● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

Cornell University
\$132,165,000

Columbia University
\$101,425,000

New York University
\$39,784,000

● 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"



www.nsf.gov



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

NSF Regional Innovation Engines (NSF Engines) represent one of the single largest broad investments in place-based research and development in the nation's history, uniquely placing science and technology leadership as the central driver for regional economic competitiveness. The NSF Energy Storage Engine in Upstate New York, led by **Binghamton University**, is establishing a tech-based, industry-driven innovation hub focused on battery technology. The NSF Engine covers the entire battery life cycle – spanning materials, components, cells, modules, packs, system management, industrial applications and recycling – with industry partners secured along each step. All these research thrusts are aimed at developing leapfrog innovations to bolster domestic battery production and reduce dependence on non-domestic supply chains. For these innovations, the NSF Engine provides a comprehensive technology translation plan from lab to market that starts with industry-informed research and development and transitions technology development through venture launch and growth, proof-of-concept and prototyping, on through pilot projects, scaling and eventual commercial development with external funding.



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

Advanced semiconductor technologies are essential to U.S. industries and national security in areas such as artificial intelligence and machine learning, electric vehicles, high-performance computing, quantum technology and augmented and virtual reality. Despite the urgent national need for advances in this field, there is a substantial shortage in semiconductor talent, especially at the graduate level. An NSF Research Traineeship (NRT) award to **Rochester Institute of Technology** is developing an innovative convergent graduate research training program focused on next-generation complementary metal-oxide-semiconductors. Four research tracks, led by the NRT faculty team, address a range of applications for these semiconductors, from fundamental physics and material science to micro- and nanoelectronics, optoelectronics and photonics, and integrated circuits and packaging. The project anticipates providing 170 graduate students with enhanced technical and professional skills in order to strengthen the nation's semiconductor technology leadership.



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

To meet the anticipated need for a skilled semiconductor workforce, an NSF Advanced Technological Education project at the **State University of New York Polytechnic Institute** is supporting a novel education alliance centered on multi-modal, immersive experiential learning at a leading-edge semiconductor facility. The Educational Alliance for Semiconductor Experiential Learning (EASEL) will be initially comprised of NY CREATES, a cutting-edge R&D center which operates the only noncommercial 300mm silicon wafer integrated circuit fabrication facility in North America, and a core team of four community colleges: **Onondaga Community College, LaGuardia Community College, Columbus State Community College** and **Madison Area Technical College**. Over the 4-year project, it is anticipated that up to 660 student learners and faculty participants will be supported on-site at the NY CREATES Albany Nanotech Complex, resulting in as much as 43,000 hours of student immersive experiential learning and 4,000 hours of faculty technical 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, **New York** invested **\$38,224,000,000** 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.
- **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.