



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)

CONNECTICUT

● FAST FACTS



\$68,206,000

Total NSF Awards to Connecticut



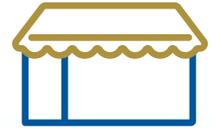
\$50,361,000

Invested in Fundamental Research in Connecticut



\$15,151,000

Invested in STEM Education in Connecticut



\$1,273,000

Invested in Connecticut Businesses

● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

Yale University
\$36,321,000

University of Connecticut
\$18,746,000

University of Connecticut Health Center
\$1,816,000

● 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*

Messenger RNAs (mRNAs) encode instructions for making proteins, which constitute the fundamental machinery for cellular function. Recent technological advancements have enabled the development of therapeutic mRNAs that can be delivered to humans, notably evident in widely used vaccines for SARS-CoV-2. The success of these therapeutics suggests the potential of new generations of mRNA medicines with applications beyond vaccines, such as anticancer therapies and treatment for genetic disorders. Realizing these goals will require the design of mRNAs that optimize protein expression and can be customized for specific tissues and cellular environments. The goal of an NSF Genetic Mechanisms project at **Yale University** is to discover features that modify the timing and quantity of protein production by mRNAs. Insights into these fundamental rules for gene expression will be important building blocks for engineering new classes of mRNA therapeutics to address a broader spectrum of human disease, thus advancing RNA biotechnology.



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

The New England region needs highly skilled electric vehicle technicians to keep pace with the rapidly changing landscape in the automotive industry: by 2032, the number of personal light-duty EVs in New England is projected to experience a 500% increase. To meet growing EV needs, the Connecticut State Community College Gateway Automotive Technology program has established a stackable certificate program including coursework in hybrid and electric vehicle operation, safety, maintenance, diagnosis and repair to prepare the next generation of automotive technicians with the requisite skills to support electric vehicles and hybrid vehicles. The EV program offers enrichment opportunities for students and faculty through professional development and strengthens and expands automotive technology partnerships with local, regional and state employers. The EV program generates new curricula, embeds updated skills within existing curricula, increases interest in automotive technology careers and results in a more highly skilled workforce. This initiative is led by the **Connecticut Board of Regents for Higher Education** and is supported by the NSF Advanced Technological Education program.



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

Over its 6-year duration, an NSF Scholarships in Science, Technology, Engineering, and Mathematics Program project at **Naugatuck Valley Community College** will fund scholarships to 60 full-time students who are pursuing associate degrees in fields such as biochemistry, computer information systems, electronics engineering, physics and technology. Most scholars will be first-year college students and will receive at least 2 years of scholarship and be funded through graduation. Scholars have access to mentoring, professional development, and a breadth of academic supports including STEM internships and research opportunities. The project seeks to broaden participation in STEM fields and generate knowledge on effective practices to support talented low-income students.

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, **Connecticut** invested **\$10,176,000,000** 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.nsf.gov/seedfund).