



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://nsf.gov/75years)

# NEW JERSEY

## ● FAST FACTS



**\$149,758,000**

Total NSF Awards to New Jersey



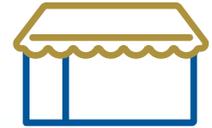
**\$128,679,000**

Invested in Fundamental Research in New Jersey



**\$21,078,000**

Invested in STEM Education in New Jersey



**\$3,402,000**

Invested in New Jersey Businesses

## ● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

Princeton University  
**\$49,559,000**

Rutgers University-New Brunswick  
**\$35,385,000**

New Jersey Institute of Technology  
**\$19,029,000**

## ● 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](https://www.nsf.gov)



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

Using its strong connection to the South Jersey area and the extensive quantum science network of the University of Chicago, **Rowan University** is extending the impact of both universities by bringing quantum training and opportunities to the local community there. The project team, supported by the NSF Expanding Capacity in Quantum Information Science and Engineering program, is developing fundamental design principles for molecular qubit sensors, which hold potential as electric and magnetic field sensors of unparalleled sensitivity. The team aims to enhance the sensitivity and response of both optical and electrical quantum sensors by exploiting key quantum features, including entanglement and strong electron correlation. Broader impact efforts include a graduate student exchange program with the University of Chicago and quantum information science and engineering outreach at local community colleges in South Jersey.



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

The Research Collaboratory for Structural Bioinformatics (RCSB) Protein Data Bank (PDB), led by **Rutgers University-New Brunswick**, serves as the U.S. data center for the global Protein Data Bank. Funded by NSF, RCSB PDB works with community stakeholders to preserve and deliver rigorously validated, expertly biocurated three-dimensional (3D) biostructure information archived in the PDB to millions of PDB data consumers worldwide at no charge and with no limitations on usage. Enabled by state-of-the-art data analysis, visualization and download tool, exploration of these experimentally-determined structures of proteins and nucleic acids via RCSB PDB web portals drives patent applications, drug discovery and development and the formation of new US companies. Open access to PDB data and RCSB.org tools helps researchers in the fight against pandemics such as COVID-19 and other emerging infectious diseases, and RCSB PDB training, outreach and education efforts help students and researchers learn how to connect 3D biostructures to knowledge. Continued support of RCSB PDB sustains an open-access global data resource that is central to research and education in biology and medicine.



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

Individuals, businesses, and governments rely on data scientists to collect, analyze, and interpret data to produce information used to make critical decisions. To meet the projected need for tens of thousands of new data scientists in the coming years, it is essential that institutions of higher education establish programs to produce graduates capable of filling these openings. That is why the County College of Morris is using an award from the NSF Advanced Technical Education program to create a Data Science Institute to meet the increasing demand in New Jersey. The Data Science Institute has four key pillars: offer workshops and training sessions on relevant data science skills, develop high school to collegial pathways for degree attainment, support high school teacher and college faculty development, and facilitate interactions between students and professionals through guest lectures, industry visits, and networking events. Through this program, the County College of Morris will increase its education of technicians for the advanced-technology fields that drive the Nation's economy.

### 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 Jersey** invested **\$27,749,000,000** 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](mailto: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).