National Science Foundation

NORTH CAROLINA

FY 2022 Fast Facts

$203,966,000
Total NSF Awards to North Carolina

$153,415,000
Invested in Fundamental Research in North Carolina

$50,551,000
Invested in STEM Education in North Carolina

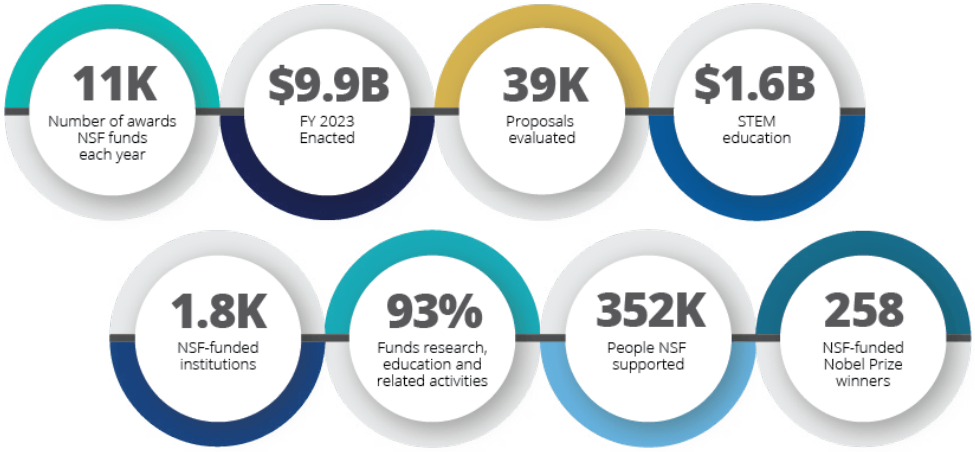
$8,893,000
Invested in North Carolina Businesses

Top NSF-funded Academic Institutions for FY 2022

North Carolina State University	Duke University	University of North Carolina at Chapel Hill
$56,429,556	$49,424,270	$35,228,756

NSF By The Numbers

The National Science Foundation (NSF) is a $9.5 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.



Data represents FY 2022 Actuals unless otherwise indicated.

Expanding the Frontiers of Science

NSF's Artificial Intelligence Institute for Edge Computing Leveraging Next-generation Networks is led by **Duke University**. The institute focuses on developing edge computing with groundbreaking AI functionality while keeping complexity and costs under control. Bringing together a world-class, multidisciplinary team of scientists, engineers, statisticians, legal scholars and psychologists from seven universities, the institute will transform the design, operation and service of future systems, from mobile devices to networks. It is committed to educating and developing the workforce, cultivating a diverse next generation of edge computing and network leaders whose core values are driven by ethics and fairness in AI. As a nexus point for the community, the institute will spearhead collaboration and knowledge transfer, translating emerging technical capabilities to new business models and entrepreneurial opportunities.

STEM Education and Broadening Participation

An NSF project aims to serve the national interest by iteratively assessing and improving the STEM Academic Research and Training program, an Apprenticeship Research Experience at **Wake Technical Community College.** The project contributes to understanding the effects of Apprenticeship Research Experiences on community college students' persistence in college and in STEM careers. Project outcomes will develop a sustainable model for mentored, co-curricular, apprenticeship-style undergraduate research programs. These programs will help build the case for state and donor funding for undergraduate research experiences and internships at community colleges across North Carolina. The project recruits students from populations underrepresented in STEM and further develops relationships with numerous research partners. By supporting students with paid internships, the project increases access to STEM careers for low-income students and offers a distinct opportunity to recruit underrepresented minorities and first-generation college students into STEM research and prepare them for successful academic and professional careers.

Regional Innovation Engines

The NSF Engines program envisions fostering flourishing regional innovation ecosystems across the country, providing a unique opportunity to spur economic growth in regions that have not fully participated in the technology boom of the past few decades. The NSF Engines program uniquely harnesses the nation's science and technology research and development enterprise and regional-level resources. NSF Engines can catalyze robust partnerships rooted in scientific and technological innovation to positively impact the economy within a geographic region, address societal challenges, and advance national competitiveness. Find potential NSF engines in your state.

Infrastructure

The Research Triangle Nanotechnology Network enables innovation and commercialization of promising nanotechnologies and facilitates public education by providing access to laboratories, equipment and research expertise. The network is anchored by **North Carolina State University**, **Duke University** and the **University of North Carolina at Chapel Hill** and is located near one of the nation's major nanoscience and nanobiotechnology regional economies.

NCSES

According to the National Center for Science and Engineering Statistics (NCSES), which is housed in NSF, North Carolina ranks 7th in the nation for higher education R&D performance. Visit North Carolina's science and engineering state profile to learn more!

35.23%	of **North Carolina's** higher education degrees are concentrated in S&E fields.
5.37%	of **North Carolina's** workforce are employed in S&E occupations.
7.66%	of **North Carolina'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 NSF's 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 NSF's Research Security website.

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