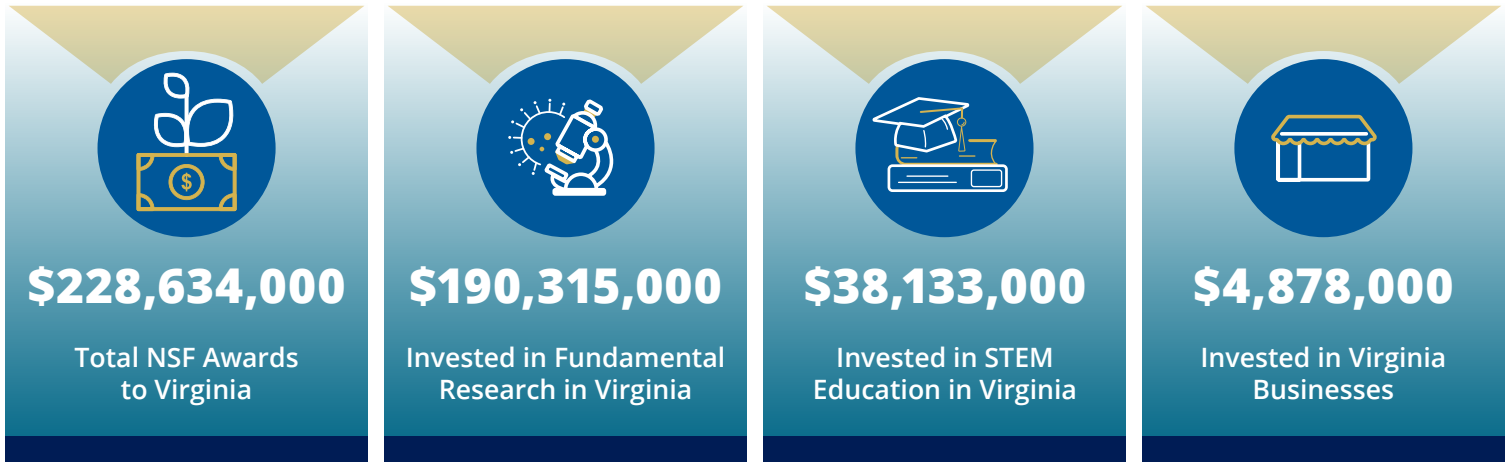




VIRGINIA

FY 2022 Fast Facts

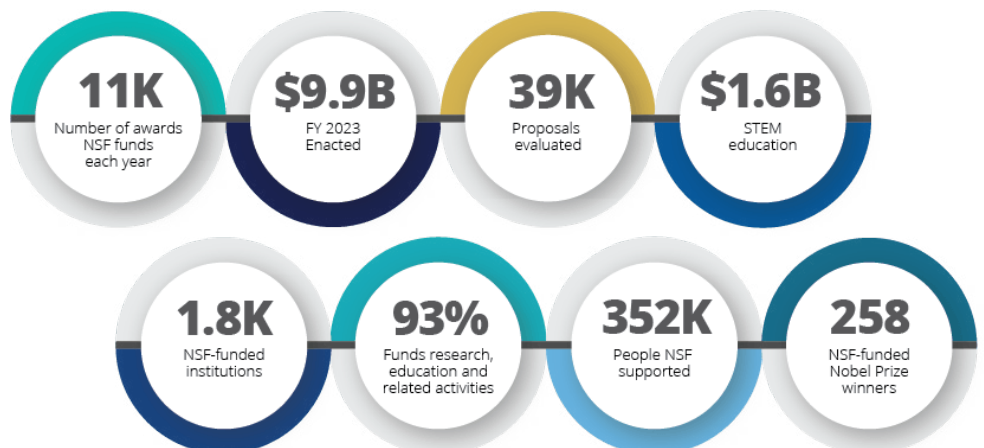


Top NSF-funded Academic Institutions for FY 2022



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

The **University of Virginia**, or UVA, received an award through NSF's Coastlines and People program to create transferable methods for enhancing resilience and equity in urban coastal communities. The project focuses on communities in the Hampton Roads region — one of the most vulnerable populations to sea level rise in the United States — as community partners. The project emphasizes the co-generation of community capitals among a diverse team of researchers in partnership with community stakeholders. Community capitals is a term inclusive of both natural-built capitals — such as sea walls, living shorelines and green stormwater infrastructure — and human-social capitals, such as health, well-being, agency, and empowerment. Both forms of community capitals must work together to have resilient and equitable urban coastal communities. The project has three primary broader impact goals: create a long-term partnership between Norfolk State University and UVA to capitalize on their shared interest in climate resilience and create meaningful connections with the local community; outreach and education to public K-12 students; and have a positive effect on the well-being of local partner communities.



STEM Education and Broadening Participation

The Virginia-North Carolina Louis Stokes Alliance for Minority Participation's (LSAMP) Bridge to the Doctorate activity will offer 12 talented students from multiple LSAMP alliances the opportunity to pursue doctoral degrees in science, technology, engineering, and mathematics fields at **Virginia Commonwealth University**. The goal of the program is to broaden participation in STEM graduate programs by addressing known barriers to underrepresented minorities participation in STEM graduate-level education, including lack of academic and social integration within STEM graduate programs, lack of STEM-related professional mentoring, and lack of support for research self-efficacy. This project will implement a comprehensive program that includes rigorous academic preparation, mentoring activities and training, research training experiences, and professional development activities for fellows.



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 **National Radio Astronomy Observatory**, located in Charlottesville, designs, builds, operates, and maintains state-of-the-art radio telescopes used by scientists from around the world. NRAO facilities enable researchers to study a broad range of key problems in modern astrophysics that reach from within our solar system to the most distant galaxies in the universe and are tools for the entire scientific community that will empower discoveries across all fields of astrophysics. NRAO supports facilities in Chile and the U.S.

NCSES

According to the [National Center for Science and Engineering Statistics \(NCSES\)](#), which is housed in NSF, Virginia ranks 3rd in the nation for SBIR awards. Visit Virginia's science and engineering state profile to learn more!

33.8% of Virginia's [higher education degrees are concentrated in S&E fields.](#)

8.13% of Virginia's [workforce are employed in S&E occupations.](#)

7.32% of Virginia'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.](#)

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