



U.S. National Science Foundation



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)

WEST VIRGINIA

● FAST FACTS



\$27,813,000

Total NSF Awards to West Virginia



\$23,300,000

Invested in Fundamental Research in West Virginia



\$4,513,000

Invested in STEM Education in West Virginia



\$823,000

Invested in West Virginia Businesses

● TOP NSF-FUNDED ACADEMIC INSTITUTIONS

West Virginia University
\$15,413,000

Concord University
\$2,934,000

Marshall University
\$2,238,000

● 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"



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

West Virginia State University (WVSU) is using funding from the NSF Historically Black Colleges and Universities – Excellence in Research program to understand better the molecular mechanisms that govern the biosynthesis of plant oils. The team uses genetics, molecular biology and biochemistry to understand the role of specific proteins in storing nutritious fatty acids. This information is useful for breeding crops which provide higher nutritional components that will increase agricultural output, which is crucial to addressing the world's food, nutrition, chemicals, bioenergy and nutraceutical needs. This research program also expands the opportunities for WVSU undergraduate students, graduate students and postdoctoral researchers to conduct experiments in biotechnology and molecular biology, analyze data and share their findings through publications and presentations.

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

NSF Regional Innovation Engines (NSF Engines) Development Awards help organizations create connections and develop their local innovation ecosystem within two years to prepare a strong proposal for becoming a future NSF Engine. The program establishes regional teams rooted within industry, academia, government, nonprofits, civil society and communities of practice to catalyze and foster innovation ecosystems across the U.S., which will advance critical technologies, address national and societal challenges, promote economic growth and job creation, spur productive regional innovation and nurture diverse talent. One such Development Award, made to **West Virginia University**, is building an innovation ecosystem that offers solutions to energy resilience and security via regional partnerships in the West Virginia and southwestern Pennsylvania region. The Resilient Energy Technology and Infrastructure (RETI) consortium is laying the groundwork for a regionally impactful innovation engine that produces market-aligned technologies ready to meet the nation's future energy demands. In parallel, RETI identifies pathways for workforce development that align with emerging energy technologies.

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

Concord University (CU) is using an NSF Robert Noyce Teaching Scholarship Program award to serve the national need of increasing and retaining STEM teachers who have the cutting-edge pedagogical skills, content knowledge and dispositions required to teach in rural, high-need classrooms. The project seeks to recruit and advance 16 STEM professionals as teaching fellows (TFs) to become STEM educators within rural schools. To achieve this goal, CU is developing an online Master of Arts in Teaching curriculum, which incorporates virtual reality technology, and implementing a comprehensive wrap-around mentorship program to connect a multidisciplinary team of mentors with the TFs. The project includes partnerships with Mercer, McDowell, and Summers County Schools, the West Virginia Science Teachers Association and the artificial intelligence software company Sibme. It is estimated that around 9,600 rural P-12 students will directly benefit from these initiatives throughout the project.

COMPETITIVE RESEARCH

WEST VIRGINIA is one of 28 U.S. states or territories under the NSF Established Program to Stimulate Competitive Research (EPSCoR). For more information, visit [WEST VIRGINIA'S EPSCoR state web page](#).

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, **West Virginia** invested **\$831,000,000** 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.seedfund.nsf.gov).