NSF & NEW YORK

FAST FACTS

$483,922,00
Total NSF awards to New York in FY19

$419,865,000
Amount invested in fundamental research in New York in FY19

$64,057,000
Amount invested in STEM education in New York in FY19

$15,614,000
Amount invested in New York startups through NSF's small business program in FY19

TOP 3 NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY19

$88,544,000
Columbia University

$87,950,000
Cornell University

$45, 073,000
New York University

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In Fiscal Year (FY) 2019, the **National Science Foundation made $483,922,000 in awards** to New York in support of fundamental research, advanced technical education, entrepreneurial training, STEM teacher training, long-term ecological monitoring, small business development, major research instrumentation and more.

The Scotia-based 109th Airlift Wing has provided airlift support to NSF's Polar Programs. The wing operates LC-130Hs, modified with wheel-ski gear, in support of Arctic and Antarctic operations.
Image Credit: United States Air Force via Wikimedia Commons

DID YOU KNOW?

DISCOVERY | NSF-funded researchers at the **State University of New York (SUNY) Stony Brook** played a critical role in improving the scanners that help turn barcodes into information. The SUNY researchers developed software that allows a computer to make an educated guess about what it sees. The research enabled barcode scanners to read codes under less-than-ideal conditions, opening a world of new opportunities for the devices. Today, barcodes are everywhere, from grocery stores to hospitals.

STEM WORKFORCE DEVELOPMENT | The Rochester Institute of Technology is developing the Inclusive Graduate Education Network (IGEN) alliance through funding from NSF's INCLUDES program. The IGEN alliance will use an innovative strategy to institutionalize inclusive, evidence-based practices for selecting and training a diverse, innovative, and globally competitive scientific workforce. NSF INCLUDES is a comprehensive national initiative designed to enhance U.S. leadership STEM discoveries and innovations by focusing on broadening participation.

SUPPORTING STUDENTS | The City College of New York and New York City College of Technology are two of the first institutions in the country to receive an award under NSF's Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSIs) program. The program aims to build capacity and increase retention and graduation rates for STEM students at HSIs, to support growth at institutions that have traditionally lacked federal resources, and to assure that they can encourage the development of scientists and engineers.

FACILITY |Cornell University – With an initial investment of $54 million over five years, starting in 2019, NSF funds a new sub-facility: The Center for High Energy X-ray Science (CHEXS) located at the High Energy Synchrotron Source (CHESS), a unique national research facility that serves more than 1200 users annually who are conducting world-class research at the frontiers of physics, chemistry, biology, materials, engineering, and environmental sciences. This partnership broadens access to synchrotron resources and enables new and unique scientific and technological advances across a multitude of disciplines at a state-of-the-art x-ray light source. CHESS maintains a leading position in upstate New York's innovation economy and creates jobs within the advanced manufacturing sector. CHESS-supported research has notably contributed to two Nobel Prizes in 2003 and 2009.

SCIENCE & ENGINEERING (S&E) INDICATORS | 4.28% of the New York workforce is employed in S&E occupations, and 7.74% of New York business establishments are industries with high employment in science, engineering and technology occupations.[+]

[+] National Science Board, National Science Foundation. 2020. Science and Engineering Indicators 2020: The State of U.S. Science and Engineering. NSB-2020-1. Alexandria, VA. Available at https://ncses.nsf.gov/pubs/nsb20201/.