NSF & NORTH DAKOTA

FAST FACTS

$8,671,000
Total NSF awards to North Dakota in FY19

$3,713,000
Amount invested in fundamental research in North Dakota in FY19

$4,958,000
Amount invested in STEM education in North Dakota in FY19

$760,000
Amount dedicated to stimulating competitive research in North Dakota through NSF EPSCoR

TOP 3 NSF-FUNDED ACADEMIC INSTITUTIONS FOR FY19

$2,863,000
University of North Dakota

$2,092,000
Cankdeska Community College

$2,022,000
North Dakota State University, Fargo

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In Fiscal Year (FY) 2019, the **National Science Foundation made $8,671,000 in awards** to North Dakota 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.

Field scientists worki on the meteorological/flux tower at the Woodworth (WOOD) terrestrial field site.
Image Credit: Battelle, National Ecological Observatory Network

DID YOU KNOW?

STEM WORKFORCE DEVELOPMENT | **Turtle Mountain Community College** received an Advanced Technological Education (ATE) award to support the establishment of a cybersecurity program, building on the college's Computer Support Specialist program. With an emphasis on two-year Institutions of Higher Education (IHEs), the ATE program focuses on the education of technicians for the high-technology fields that drive our nation's economy. The ATE program supports curriculum development, professional development of college faculty and secondary school teachers, career pathways, and other activities.

SUPPORTING STUDENTS | NSF's Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) program addresses the need for a high-quality STEM workforce in STEM disciplines. The **University of North Dakota's** main campus was awarded $999,519 in FY 2018 for the US MASTER II (Undergraduate Scholarships with Mathematics and Science Training, Exploration and Research) project. The project will provide support to low-income students with demonstrated financial need and academic promise to succeed in STEM disciplines at University of North Dakota. The project will fund a minimum of 36 scholarships over five years for students who are pursuing bachelor's degrees in biology, chemistry, geography and geographic information science, mathematics, and physics and astrophysics.

COMPETITIVE RESEARCH | NSF made $760,000 in awards to North Dakota academic institutions through EPSCoR, which promotes scientific progress in states that have traditionally received lesser amounts of NSF research and development funding.

CENTER | United Tribes Technical College (UTTC) received a $3,499,994 continuing grant through August 2023 under NSF's Tribal Colleges and Universities Program (TCUP). A goal of TCUP is to increase the intellectual leadership of TCUP institutions so that they can address scientific or engineering needs or interests, specifically for their tribes or communities, or broadly for the nation. The TCU Enterprise Advancement Centers (TEA Centers) strand allows TCUP institutions to capitalize on their investments in STEM instructional and research capacity. UTTC is inherently intertribal and is uniquely positioned to serve many tribes through the development of an Intertribal Research and Resource Center (IRRC). The IRRC will expand UTTC's record of serving the Northern Plains as a research and training center and will operate on the four core activities of research, outreach, training and education.

SCIENCE & ENGINEERING (S&E) INDICATORS | 3.54% of the North Dakota workforce is employed in STEM occupations, as of 2018, and 6.30% of North Dakota's 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/.