ATE PROGRAM

Advanced Technological Education



The U.S. National Science Foundation's Advanced Technological Education (ATE) program focuses on the education of highly-qualified science and engineering technicians for advanced technology fields that drive our nation's economy. It promotes the improvement of STEM education of science and engineering technicians at the undergraduate and secondary school levels, and in the workforce.

Because two-year public community and technical colleges provide most of the technician education in the US, two-year college educators have leadership roles in ATE initiatives. It is expected that projects will be faculty-driven and that courses and programs will be credit-bearing, although materials developed may also be used to educate incumbent technicians.

The partnerships that ATE grantees build with industry, business, government agencies, and between secondary schools, two-year, and four-year institutions are integral to the program's outcomes.

From 1993
to 2024 NSF has
invested \$1.53 billion
in the ATE program,
funding
1,717 projects and
66 centers.



To learn more
about the ATE program
and read the
ATE solicitation,
please visit
https://nsf.gov/ate



ATE covers a wide range of fields, from agriculture to advanced manufacturing to cybersecurity and beyond. During its thirty-year history there have been ATE projects in every state of the US. The map at left showcases projects and centers funded under ATE in 2024.

For an interactive version of this map, please visit https://atecentral.net/map

ATE supports the education of the skilled technical workforce – those individuals who use significant STEM knowledge and skills in their jobs, but whose jobs do not require a baccalaureate degree.

ATE projects focus on a wide array of state- and region-wide initiatives to test and develop innovative approaches to particular technician education challenges.

ATE projects that focus on *Program Development and Improvement, Curriculum and Educational Materials Development, Professional Development for Educators, Leadership Capacity Building for Faculty, Teacher Preparation, Business and Entrepreneurial Skills Development for Students, or Applied Research on Technician Education* may receive funding up to \$1,000,000 for up to three years.

Small Scale Projects, addressing any of the preceding topics but more modest in scale, may receive up to **\$475,000** for up to **three years**.

Consortia for Innovations in Technician Education may receive up to \$3,000,000 for 3-4 years to strengthen partnerships between two-year institutions that either serve a specific industry, or where the convergence of technologies is changing the skills and competencies needed by the skilled technical workforce.

ATE Centers that lead nationwide initiatives to improve technician education in a particular field or technology may receive up to **\$7,500,000** for **five years**, with the potential for one renewal. The

specific areas of technology for funding for new ATE Centers changes by year, and can be found in the ATE solicitation.

To learn more about the ATE program and read the ATE solicitation, please visit NSF's Advanced Technological Education program pages at https://nsf.gov/ate

The ATE grant proposal **submission deadline** is the **first Thursday in Octobe**r each year, and specific dates and more detail can be found on NSF's ATE program pages.

To learn more about the grantee community and to explore materials developed by ATE projects and centers, please visit https://atecentral.net

The ATE Impacts 2024-2025 book offers a more in-depth overview of the innovative work done by the ATE community. Electronic (PDF) and a flipbook version are available at https://ateimpacts.net/book

Free print copies of ATE Impacts 2024-2025 can be requested at https://ateimpacts.net/bookrequest

For more information about ATE student successes, program improvements, and other outcomes please read the ATE Impacts blog at https://ateimpacts.net

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In 2023, ATE grantees:

Educated **22,170 students**

Engaged in 5,740 collaborations

Developed
5,274 educational
materials

Offered
650 professional
development
opportunities

Source: ATE Annual Survey 2024 https://evalu-ate.org/annual_survey