# ATE PROGRAM
Advanced Technological Education

The 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 2023 NSF has invested **$1.45 billion** in the ATE program, funding **1,656 projects** and **66 centers.**

To learn more about the ATE program and read the ATE solicitation, please visit **http://nsf.gov/ate**
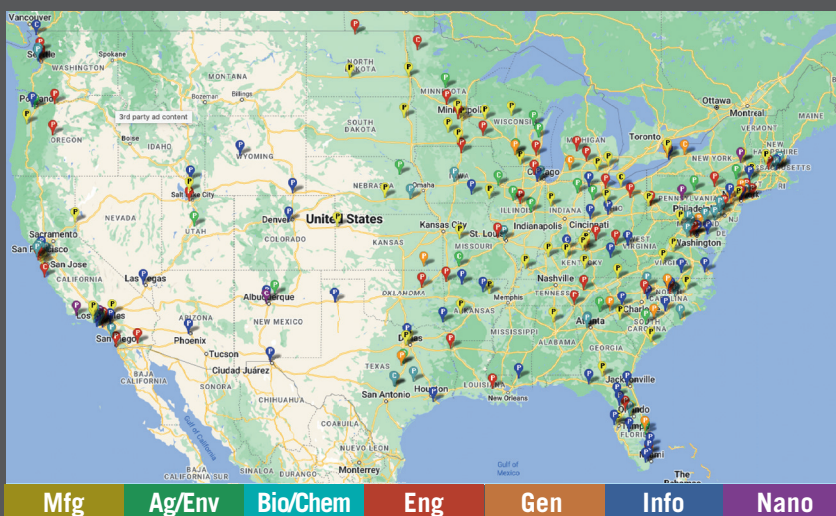
ATE covers a wide range of fields, from agriculture to advanced manufacturing to cybersecurity and beyond. During its thirty-year history there have been ATE projects in every state of the US. The map at left showcases projects and centers funded under ATE in 2023.

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

| Mfg | Ag/Env | Bio/Chem | Eng | Gen | Info | Nano |

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,* or *Business and Entrepreneurial Skills Development for Students* may receive funding up to **$650,000** for up to **3 years**.

Small Projects for Institutions New to ATE, addressing any of the preceding topics, may receive up to **$350,000** for up to **3 years**.

Consortia for Innovations in Technician Education may receive up to **$3 million** 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.

Applied Research in Technician Education may receive up to **$150,000** for up to **2 years**, and up to **$800,000** for up to **4 years**.

ATE Centers that lead nationwide initiatives to improve technician education in a particular field or technology may receive up to

$7.5 million for **5 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 **http://nsf.gov/ate**

Upcoming ATE grant proposals submission deadlines 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 **http://atecentral.net**

The *ATE Impacts 2022-2023* 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 **http://ateimpacts.net/book**

Or free print copies can be requested at **http://ateimpacts.net/bookrequest**

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

In 2022, ATE grantees:

Educated
46,610 students

Engaged in
8,210 collaborations

Developed
6,190 educational materials

Offered
670 professional development opportunities

Source: ATE Annual Survey 2023
http://www.evalu-ate.org/annual_survey

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