



NATIONAL SCIENCE FOUNDATION (NSF) ADVANCED TECHNOLOGICAL EDUCATION PROGRAM

Building the skilled technical workforce that powers innovation, strengthens industries, and advances our nation—30+ years of industry-engaged technician education.



A LEGACY OF IMPACT

The ATE program has partnered with industry and community and technical colleges across the nation to develop the skilled technical workforce needed for high-demand, high-technology industries. By supporting innovative education and workforce development programs, ATE equips students for rewarding, high-paying careers across a broad range of technology and technical fields, including rapidly emerging areas.

Inspire



Introduce learners & educators to high-tech careers early

- Career exploration
- K-12 engagement
- Professional development

Educate



Deliver high-quality industry-aligned education

- Certificates
- Industry validated certificates
- Associate degrees

Engage



Connect learning with real-world experience

- Internships
- Apprenticeships
- Upskilling

Employ



Launch skilled technicians into in-demand careers

- High-wage jobs
- Career advancement
- Work-based Learning

Impact



Strengthen industries, communities, and the nation

- Economic growth
- Innovation
- National security



ATE creates pathways from education to employment — fueling the workforce that drives U.S. innovation, competitiveness, resilience, and security.

POWERING AMERICA'S STRATEGIC TECHNOLOGIES



Semiconductors & Microelectronics



Energy & Natural Resources



Artificial Intelligence & Data Systems



Biotechnology & Bioproduction



Advanced Manufacturing



Quantum & Emerging Technologies



Cybersecurity



Defense & National Security



Agriculture



Automotive & Welding

INVESTING TODAY, STRENGTHENING TOMORROW.

LOCAL IMPACT, NATIONAL REACH.

National Science Foundation's Advanced Technological Education program empowers community and technical colleges, industry, educators, and students to meet the nation's most critical workforce needs.



1,905
PROJECTS
& CENTERS
FUNDED



\$1.7
BILLION
GRANTED
SINCE 1994



ALL 50
STATES
& US TERRITORIES
IMPACTED



1,000+
COMMUNITY
& TECHNICAL
COLLEGES ENGAGED



20,000+
COMMUNITY COLLEGE
STUDENTS PLACED
INTO TECHNICIAN JOBS



70,000+
EDUCATIONAL
MATERIALS
DEVELOPED



MILLIONS
OF LEARNERS
IMPACTED

PROVEN STRATEGIES, POWERFUL NETWORKS.

NSF ATE investments are strategically structured to meet the nation's evolving workforce needs through a coordinated portfolio of Projects, Consortia, and Centers.



PROJECTS

Local Impact,
Real Results.

Provide targeted support that strengthens local programs, expands opportunities, and improves outcomes for learners and employers.

- Address local workforce needs
- Improve teaching, learning, and equipment
- Deliver immediate, practical impact in communities



**TARGETED SUPPORT
FOR LOCAL SUCCESS**



CONSORTIA

Regional Strength,
Shared Solutions.

Bring together institutions and partners to address regional or sector-specific needs and drive innovation in technician education.

- Focus on regional or technology-specific priorities
- Leverage collective expertise and resources
- Scale solutions that meet industry and community needs



**FOCUS ON REGIONAL OR
SPECIFIC TECHNOLOGY NEEDS**



CENTERS

National Leadership,
Broad impact.

Lead collaborative networks that support the work of multiple federal agencies to advance the nation's workforce priorities.

- Address national challenges across key technology areas
- Develop and disseminate cutting-edge curriculum and resources
- Build capacity and partnerships across the country



**ADDRESS NATIONAL
WORKFORCE NEEDS**

ONE NATION, UNITED PRIORITIES.

ATE connects community colleges with federal programs, industry, and education partners to leverage investments, expand opportunities, and strengthen America's technical workforce.

CROSS-AGENCY COLLABORATION

DOE | DOW | DOC | DOL | NSA | NSF | NIST | NASA

Together, federal agencies, community colleges, and industry partners can build the skilled technician workforce that drives innovation, strengthens the economy, and keeps America competitive.



ATE is a national investment in people, partnerships, and the future of America.

Learn more about the NSF ATE Program and access resources at ATEcentral.net

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