ADVANCED TECHNOLOGICAL EDUCATION
GETTING STARTED

ATE Principal Investigators’ Conference
Pre-Conference Workshop
October 25, 2023
WORKSHOP AGENDA

Welcome (Celeste Carter)

The ATE Program
Celeste Carter (NSF, ATE Program)

Grant Management Keys to Success
Angela Turner (NSF, Division of Grants and Agreements)

Getting Started with ATE Central
Edward Almasy (ATE Central)

Question & Answer Break

Evaluation
Erika Sturgis (EvaluATE)

Grant Implementation Help / ATE Mentoring
Elaine Craft (Mentor-Connect)

Question & Answer Wrap-Up

NSF Program Officers Meet & Greet
Getting Started Workshop

V. Celeste Carter
ATE Lead Program Director
Division of Undergraduate Education
National Science Foundation

AACC/NSF National ATE Principal Investigators Conference
October 25, 2023
NSF Agenda

- Award Management
  - General Information on ATE and reporting
  - Office of the Inspector General
  - Office of Budget, Finance, and Award Management, Division of Grants and Agreements (DGA)
At a Glance

39,138 Proposals Evaluated

10,970 New Awards Funded

28% Funding Rate

1,789 NSF Funded Institutions
Part I: Grant Proposal Guide (GPG) and Part II: Award & Administration Guide (AAG)

Award & Administration Guide (AAG)

Chapter I: NSF Awards
Chapter II: Grant Administration
Chapter III: Financial Requirements and Payments
Chapter IV: Grantee Standards
Chapter V: Allowability of Costs
Chapter VI: Other Post Award Requirements
Chapter VII: Grant Admin. Disputes and Misconduct
Accountability

Where does the money come from that is supporting your project?

- You need to report and document the impact and effectiveness of your project to NSF (Annual Reports*)
- NSF uses all your information to document the impact and effectiveness of the ATE program to Congress and to other stakeholders (ATE Annual Survey*)

* Required of all awardees
Reporting

Annual reports

- Due 90 days before the anniversary of your award
  - Find the annual report template and save it. Where would you look for the template?
  - These reports are not cumulative, and should be written specifically for the most recently completed budget period.
  - Fill out text boxes in template, don’t just attach a pdf
- Your evaluator’s report needs to uploaded to your annual report (don’t copy the evaluator’s report into the annual report template)

When is your annual report due? (check your letter or check the awards database)
Reporting, con’t.

Research.gov: single sign in and template for reports

See appendix for report sections

You can attach .pdf files

- External evaluator’s report; photographs, etc.
- Be concise and after submitting, check your report for spelling, cut-and-paste errors, etc.

Don’t use .pdf files in place of entering text in the report!!!!
Reporting, con’t.

Special Requirements:
• Notifications and Requests
  • Change of PI and/or Co-PI
  • Change scope of work
  • Reallocation of funds originally budgeted for participant support.
  • You can see the PAPPG for a complete list of notifications and requests. (**NOTE**: Notifications/requests are a separate action. Merely including this information in your annual report is not sufficient.)

Returned Annual Report

Final Report: only covers final year of project, follows same template

Project Outcomes Report: due same time as final, a brief summary, prepared specifically for the public, posted on the NSF website exactly as it is submitted and will be accompanied by a disclaimer
Advisory boards

Often a good idea for a project to have one
If you have one, USE IT!!!
Program vs project advisory board
They are NOT evaluators for your project

National Visiting Committee
(only for Centers)

Only Centers are required to have one
Annual visits
A group of experts who provide advice, assess the plans and progress of the project, and enhance dissemination
8-10 members
Institutional Review Boards (IRBs)

All projects involving human subjects must either (1) have approval from the organization's Institutional Review Board (IRB) before issuance of an NSF award or, (2) must affirm that the IRB or an appropriate knowledgeable authority previously designated by the organization (not the Principal Investigator) has declared the research exempt from IRB review. The language presents the requirements clearly and emphasizes the need for someone other than the Principal Investigator to declare the relevant exemptions.

IRB approvals need to be updated yearly (approvals not exemptions)
Working with NSF ATE Program Officers

Communicate with Program Officers and Keep them informed of Progress and/or Issues

- **Please** put your award number in the subject line of the email
- Emails are usually the best way
- Tell us when something is going to happen; e.g., a professional development workshop might be good time for a site visit by a Program Officer
Acknowledgment of Support

- "This material is based upon work supported by the National Science Foundation under Grant No. (NSF grant number)." (Oral acknowledgment if appropriate.)

Disclaimer

- "Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation."

Copies

- The grantee is responsible for assuring that the cognizant NSF Program Officer is provided access to, either electronically or in paper form, a copy of every publication of material based on or developed under this award, clearly labeled with the award number and other appropriate identifying information, promptly after publication.

Logos

http://www.nsf.gov/policies/logos.jsp
How to find information about NSF awards

www.nsf.gov

Innovation Anywhere, Opportunity Everywhere

Recommended by National Science Foundation

NSF Award Search
https://www.nsf.gov/awardsearch/

Search through a database of NSF-funded projects, including both in-process and completed awards. Information includes abstracts that describe the research and names of principal investigators and their institutions.

NSF Award Search: Simple Search. - NSF - National Science Foundation
www.nsf.gov/awardsearch/

Awards Simple Search Overview of Award Search Features. Search award for: Use double quotes for exact search. For example "water vapor". Active Awards ...

NSF Award Search: Advanced Search. - NSF - National Science Foundation
www.nsf.gov/awardsearch/advancedSearch.jsp

Simple Search Advanced Search Popular Searches Download Awards Send Comments Award Search Help Awards Advanced Search Overview of Award Search ...
### National Information Technology Innovation Center (NITIC)

<table>
<thead>
<tr>
<th>NSF Org:</th>
<th>DUE Division Of Undergraduate Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recipient:</td>
<td>COLUMBUS STATE COMMUNITY COLLEGE</td>
</tr>
<tr>
<td>Initial Amendment Date:</td>
<td>August 30, 2023</td>
</tr>
<tr>
<td>Latest Amendment Date:</td>
<td>August 30, 2023</td>
</tr>
<tr>
<td>Award Number:</td>
<td>2300188</td>
</tr>
<tr>
<td>Award Instrument:</td>
<td>Standard Grant</td>
</tr>
<tr>
<td>Program Manager:</td>
<td>Paul Tymann  <a href="mailto:ptymann@nsf.gov">ptymann@nsf.gov</a>  (703)292-2832  DUE Division Of Undergraduate Education  EDU Directorate for STEM Education</td>
</tr>
<tr>
<td>Start Date:</td>
<td>September 1, 2023</td>
</tr>
<tr>
<td>End Date:</td>
<td>August 31, 2028 (Estimated)</td>
</tr>
<tr>
<td>Total Intended Award Amount:</td>
<td>$7,475,000.00</td>
</tr>
<tr>
<td>Total Awarded Amount to Date:</td>
<td>$7,475,000.00</td>
</tr>
<tr>
<td>Funds Obligated to Date:</td>
<td>FY 2023 = $7,475,000.00</td>
</tr>
</tbody>
</table>

**History of Investigator:**
- Lawrence McWherter (Principal Investigator)  lmckwherter@csc.edu
- Diane Meza (Co-Principal Investigator)
- Kyle Jones (Co-Principal Investigator)
- Rajiv Malik (Co-Principal Investigator)

**Recipient Sponsored Research Office:**
Columbus State Community College  550 E SPRING ST  COLUMBUS  OH US 43215-1722  (614)287-2639

**Sponsor Congressional District:** 03
Reviewing Proposals for NSF

- Great professional development
- Service to the education community
- Opportunity to forge new collaborations
- Send your Program Officer a 2-page CV
- Not just ATE: DUE (IUSE, S-STEM, Noyce), DRL, DGE, HRD programs
Questions?

"Pardon me, but could you tell us where the public trough is?"
Office of the Inspector General
OIG Organizational Chart

Inspector General

Audit
Investigations
Counsel/Admin
Office of Inspector General (OIG) Mission

- Conduct **investigations** and review of NSF and its Programs

- Promote **efficiency, economy and effectiveness** of NSF internal operations and programs

- Detect and **prevent** fraud, waste and abuse
Typical Allegations

- Research Misconduct (FFP)
  - NOTE: We review FFP for possible civil/criminal violations
- Embezzlement/Theft
- Fraud (including false statements, mail and wire fraud)
- Civil False Claims
- Criminal False Claims
- Violations of regulations and policies (conflict of interest, OMB Circulars, NSF policies)
Possible Results of Investigation

- Nothing
- Special oversight or review
- Administrative sanctions
- Suspension/Debarment/Exclusion of individual
- Suspension/Termination of Award
- Civil/Criminal Remedies
- Compliance Plan
Knowing the Rules

- The Solicitation lists items NSF funds **may not** be used for, including:
  - replacement equipment or instrumentation that does not significantly improve instructional capability;
  - teaching aids (e.g., films, slides, projectors, "drill and practice" software);
  - vehicles, trailers, laboratory furnishings, or general utility items such as office equipment (including word-processing equipment), benches, tables, desks, chairs, storage cases, and routine supplies;
  - maintenance equipment and maintenance or service contracts;
  - the modification, construction, or furnishing of laboratories or other buildings;
  - the installation of equipment or instrumentation (as distinct from the on-site assembly of multi-component instruments--which is an allowable charge).

- You will be held accountable for what is in the Solicitation and award letter, grant conditions, etc.
- OIG may investigate you if you break the rules.
Your Role

- Manage award effectively—**know rules**, keep documentation, have good accounting practices
- **Notify** OIG of allegations of wrongdoing, and significant administrative or financial problems affecting the award
- **Respond** to OIG’s requests for information
- Take appropriate **remedial action** if a problem is identified
- **Communicate** with your program officer
Whistleblower Protection

- **NSF Federal employees** are protected if they make a whistleblower disclosure to the U.S. Office of Special Counsel, OIG, or a supervisor.

- **Employees of NSF contractors and grantees (subcontractors and subgrantees)** are protected if they make a whistleblower disclosure to their management, and OIG, or an official responsible for investigating misconduct.

- **All of the above** are also protected for communication to Congress or the media.

- Info on whistleblower protection is available on our website and the OSC website.

  https://www.nsf.gov/oig/whistleblower.jsp
  http://www.osc.gov
Reporting

Anonymous Hotline
1-800-428-2189

2415 Eisenhower Avenue
Alexandria, VA 22314
ATTN: OIG HOTLINE

E-mail
oig@nsf.gov

Web
https://www.nsf.gov/oig/
National Science Foundation
Office of Budget, Finance and Award Management
Division of Grants and Agreements

2023 ATE PI Conference

GRANT MANAGEMENT KEYS TO SUCCESS

Angela Turner, Acting Team Leader
aturner@nsf.gov; 703-292-7524

Khoren Claiborne, Grants Officer
kclaibor@nsf.gov; 703-292-2313

October 2023
DGA MISSION STATEMENT

“Support the issuance of NSF assistance awards and other agreements by providing business, financial, and award administration assistance from pre-award through closeout.”

DGA organization chart with contact info for award-specific questions:

KEY TOPICS

WHAT IS MY ROLE?

QUESTION FOR FUN

NOTIFICATIONS & REQUESTS

PROCESSING DELAYS

KEY TAKAWAYS

Q&A SESSION

2023 ATE PI Conference
PRINCIPAL INVESTIGATOR (PI)

is the individual(s) designated by the proposer, and approved by NSF, who will be responsible for the scientific or technical direction of the project.

SPONSORED RESEARCH OFFICE (SRO)

Full responsibility for the conduct of project activity and for adhering to the award conditions. Must ensure that the institution is in compliance to all applicable Federal requirements and to manage all expenditures and actions prudently.

PROGRAM OFFICER (PO)

Program Divisions/Offices are responsible for the scientific, technical and programmatic review and evaluation of proposals for recommending that proposals be declined or awarded.

GRANTS MANAGEMENT SPECIALIST (GMS)

is responsible for the award and administration of the majority of NSF’s assistance awards – i.e., grants, cooperative agreements, and fellowship awards, recommended for support by NSF program offices.
QUESTION

HOW MANY ACTIONS DO YOU THINK DGA PROCESSED LAST FISCAL YEAR?
IN FY2022, DGA PROCESSED:

16,873 FUNDED ACTIONS INCLUDING
OVER 5,000 POST AWARD AMENDMENTS
OVER 500 PI TRANSFERS
TOP 3 REASONS FOR DELAYS IN AWARD PROCESSING

OVERDUE PROJECT REPORTS
Annual Project Reports (APR), Interim Reports, Final Annual Project Reports (FPR), and Project Outcomes Report for the General Public (POR).

NOT FOLLOWING SOLICITATION REQUIREMENTS
DGA reviews the proposal to ensure budgetary and administrative conditions are in accordance with the solicitation.

UNALLOWABLE OR UNJUSTIFIED BUDGET ITEMS
PAPPG II.D.2.f(xiii) & 2 CFR 200, Subpart E provides comprehensive information regarding costs allowable under Federal awards.
Key TAKEAWAYS

Ask Early! Ask Often!

- Know requirements (award letter, award terms and conditions, and Uniform Guidance).
- Remember critical project reports dates.
- Utilize effective communication. Always provide proposal/award number.
- For technical/scientific questions: Contact the Program Officer (PO).
- For administrative questions: Contact the Sponsored Research Office (SRO).
- For award-specific questions: The Sponsored Research Office (SRO) should contact the Grants Management Specialist (GMS).
THANK YOU!

QUESTIONS?
UNIFORM GUIDANCE
COST PRINCIPLES
(2 CFR 200)

ALLOWABLE
REASONABLE
ALLOCABLE
NECESSARY
**UNALLOWABLE COSTS IN EVERY CIRCUMSTANCE**

**ALCOHOLIC BEVERAGES**
Costs of alcoholic beverages are unallowable.
2 CFR 200.423

**COSTS OF ENTERTAINMENT**
Including amusement, diversion and social activities, and any costs directly associated with such activities (such as tickets to shows or sporting events, meals, lodging, rentals, transportation, and gratuities) are unallowable.
2 CFR 200.438

**MEALS & COFFEE BREAKS**
No funds may be requested for meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to laboratories, departments, and centers.
2 CFR 200.432
NEW PAPPG (NSF 23-1) EFFECTIVE JANUARY 30, 2023

“The Proposal & Award Policies & Procedures Guide (PAPPG) is comprised of documents relating to the Foundation’s proposal and award process for the assistance programs of NSF.

Career Opportunities | NSF
https://beta.nsf.gov/careers

Join the National Science Foundation

BROWSE JOB OPENINGS

Careers at NSF
- Working at NSF
- NSF Supports DEI
- Job Types
- How to Apply
- Rotator Programs
- Job Openings

Working at NSF
When you find a career at the National Science Foundation, you get a great place to work and the chance to become part of cutting-edge innovation and discovery.

NSF Supports DEI
Diversity, Equity, Inclusion, and Accessibility (DEI) is a high priority at NSF, and the Foundation is committed to creating and being a highly qualified workforce.
Getting Started with ATE Central

Getting Started Workshop
ATE Principal Investigators' Conference
October 25, 2023

Edward Almasy
Director, Internet Scout Research Group
Co-PI, ATE Central
What is ATE Central?

- **Information hub** for ATE
- **Archiving** for ATE
- **Supports and promotes** ATE community work
- **Provides tools, services, and publications**
Information Hub

Information about:

- ATE projects and centers
- ATE-created resources
- ATE events
- ATE program and community
What can ATE Central do for me?
Tools, Services, and Publications

Tools and Services:
- Archiving service
- Evaluator directory
- Events calendar
- Microsite service
- Social media directory
- ATE Office Hours

Publications:
- ATE Central Connection
- ATE Activity Report
- ATE Outreach Kit
- ATE Fact Sheet
- ATE Impacts book+ebook
- ATE Impacts blog
ATE Events

Upcoming

UAA 2023 Collegiate Aviation Education Conference & Expo
https://nsectech.org/events/uaa-2023-collegiate-aviation-education-conference-expo/

This 3-day event offers innovation workshops, thought provoking education sessions, and opportunities for attendees to hear from leaders across the industry. Designed to connect and provide networking opportunities with industry professionals and policy positions that affect core groups within the membership.

This international event explores best practices and trends in aviation education for university faculty and administrators. Advanced content is specially designed to keep you connected to industry experts.

Registration Deadline: September 19th, 2023

> More Information

What's New in Global Mapper Standard v25?
https://www.bluemarblegeo.com/geotalks-express-webinars/

Blue Marble product managers and software developers are busily planning writing lines of code that will eventually evolve into Global Mapper Standard Version 25. Each release brings a plethora of new and improved functionality throughout virtually all aspects of the software. In this session, presenters will introduce and demonstrate some of the highlights of version 25, including enhanced capabilities for working with vector, raster, and terrain data.

> More Information

Wine Sensory Analysis Workshop - TN 2023
https://www.vesta-usa.org/Events/Wine-Sensory-Analysis-Workshop-TN-2023

This workshop will benefit winemakers, cellar workers, winery staff, and wine enthusiasts who seek a deeper understanding of these topics and their impact on a winery’s success. In addition, workshop attendees will be guided through sensory test methods to access perceived differences and preferences in wine.

Topics include: Welcome and Introduction to Tasting, White Sensory Standards, Red Sensory Standards, and Evaluating Palate Attributes: Alcohol, Acid, and Tannin Wine Defects, Descriptive Wine Analysis of White Wines, Descriptive Analysis of Red Wines, Laboratory Investigating, Wine Competition Methodology and Professional Wine Rating Systems. A certificate will be awarded after the completion of this workshop.

Presenter: Zoran Ujevic, Director of Sales and Wine Making Consultant with Ana Selection by Canadeal

Cost: Single day registration ($175 per person), Full registration ($300 per person)

> More Information

The BIG Event: Girl Scouts
https://nsectech.org/events/the-big-event-girl-scouts/

http://atecentral.net/events
Promote Your Events

ATE Events Calendar

- **Get the word out** about your events, or events of possible interest to other ATE grantees or partners

- Conferences, meetings, summits, workshops, webinars, student events

- Shared via website, social media, mailings (like ATE Central Connection – 5,000+ subscribers)

http://atecentral.net/submitevent
Add Event

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>2022 Annual ATE PI Conference (In-Person)</td>
</tr>
<tr>
<td>Short Title</td>
<td>(short title)</td>
</tr>
<tr>
<td>Description</td>
<td>The 2022 ATE Conference: Reconnecting &amp; Advancing the Skilled Technical Workforce will be held as a virtual component of this conference. The conference will bring together more than 850 NSF-ATE grantees and their project partners to focus on advanced technological education. Key people working on ATE projects across the country will participate, and participants represent community colleges, business and industry, secondary school systems, and four-year institutions. A variety of areas, such as information technology, engineering technology, micro- and nanotechnology, biotechnology, and others. The conference will kick off virtually with ATE Connect on Thursday, October 20, and Friday, October 21.</td>
</tr>
<tr>
<td>URL</td>
<td><a href="https://www.atepiconference.com">https://www.atepiconference.com</a></td>
</tr>
<tr>
<td>Event Registration</td>
<td>(event registration)</td>
</tr>
<tr>
<td>Type</td>
<td>Conference, Meeting, Speaker, Student Event</td>
</tr>
<tr>
<td>Release Flag</td>
<td>Not OK for Viewing, OK for Viewing</td>
</tr>
<tr>
<td>Start Date</td>
<td>Oct 26, 2022</td>
</tr>
<tr>
<td>End Date</td>
<td>Oct 28, 2022</td>
</tr>
<tr>
<td>All Day</td>
<td>Yes</td>
</tr>
<tr>
<td>Registration Deadline</td>
<td>(registration deadline)</td>
</tr>
</tbody>
</table>

Submit: Conferences Meetings Summits Webinars Workshops Student Events

http://atecentral.net/submitevent
Add Events to Your Calendar

ATE Calendar Feeds

- Have ATE-related events show up on your calendar automatically

- Select events by **keyword**, **subject**, and **event type**

- Add events to your **personal calendar** or to your project or center’s **website** (if WordPress or other compatible CMS)

http://atecentral.net/calendarfeeds
Get Your Project Online ASAP

Microsite Service

- Set up for every new ATE project and center
- **Custom** URL
  - http://ate.is/myproject
  - http://ate.community/myproject
- Leverage community **information** and **resources**
- Not affected by institutional issues

What can ATE Central do for me?

http://atecentral.net/microsites
What can ATE Central do for me?

Jumpstart Your Social Media

Social Media Directory

- See what others are doing and what **works**
- Find relevant **news** and **content** to **share**
- **Connect** with new organizations and stakeholders
- ATE projects, ATE centers, NSF, related organizations (AACC, AAAS), professional and trade associations

http://atecentral.net/socialmedia
ATE Social Media Directory

Here is an online directory of ATE centers and projects that are using social media, along with some ATE partners and collaborators, so that you can easily find them for best practices, professional development, and staying in touch with the ATE community.

ATE Centers

<table>
<thead>
<tr>
<th>Center Name</th>
<th>Facebook</th>
<th>LinkedIn</th>
<th>Twitter</th>
<th>YouTube</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Technology Environmental and Energy Center (ATEEC)</td>
<td>&lt;br&gt; <img src="https://example.com" alt="Facebook" />  &lt;br&gt; <img src="https://example.com" alt="LinkedIn" />  &lt;br&gt; <img src="https://example.com" alt="Twitter" />  &lt;br&gt; <img src="https://example.com" alt="YouTube" /></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Efficiency for a Sustainable Tomorrow (BEST) Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center for Advanced Automotive Technology (CAAT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Center for Renewable Energy Advanced Technological Education (CREATE)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DeafTEC: Technological Education Center for Deaf and Hard-of-Hearing Students</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EvaluATE: Evaluation Resource Center for Advanced Technological Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida Advanced Technology Education Center for Manufacturing (FLATE)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GeoTech Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser and Fiber Optics Regional Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine Advanced Technology Education Support Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nanotechnology Applications and Career Knowledge Resource Center (NACK Center)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Center for Autonomous Technologies (NCAT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Center for Supply Chain Automation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Convergence Technology Center (CTC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Cybersecurity Training and Education (NCyTE) Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National CyberWatch Resource Center</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast Advanced Technological Education Center (NEATEC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northeast Biomanufacturing Center and Collaborative (NBCC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regional Center for Next Generation Manufacturing (RCNGM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regional Center For Nuclear Education &amp; Training (RCNET)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Support Center for Microsystems Education (SCME)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viticulture and Enology Science and Technology Alliance (VESTA)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
What can ATE Central do for me?

Extend and Expand Your Impact

Archiving Service

- All digital deliverables
- Extend and expand the impact of your work
- Preserves NSF’s investment
- Required for all ATE grantees

http://atecentral.net/archiving
What can ATE Central do for me?

Help You Stay Informed

ATE Central Connection

- Published monthly
- Featured ATE Project
- Featured ATE Resources
- Upcoming ATE Events
- Community Connection
- ATE Success Tips
- News & Reminders

Featured Project
Enhancing the Independent Mechanizations Technical Curriculum and Creating a New Pathway from Rural High Schools into Mechanizations Careers

Featured Resources: Advanced Manufacturing Technologies

Featured Event: Upcoming ATE Events

Community Connection

Four Newly Funded Projects

http://atecentral.net/connection
Welcome to the ATE Central Connection! Published the first Tuesday of each month, the ATE Central Connection is meant to disseminate information to and about ATE centers and projects, providing you with up-to-date ATE news, events, reminders, as well as highlighting the centers, projects, and resources. In addition, a variety of complementary resources found within ATE Central help illustrate how ATE resources can be used in the classroom.

We want the ATE Central Connection to be a valuable tool; please e-mail info@atecentral.net with any suggestions about how to make it even more useful. Your feedback is appreciated. If you have any questions or suggestions, or if you would like to see an upcoming issue, please contact the ATE Central Connection at info@atecentral.net.

In This Issue

Featured Project: Enhancing the Independent Mechatronics Technical Curriculum and Creating a New Pathway from Post-Secondary Into Mechatronics Careers

Featured Resources: Advanced Manufacturing Technologies

Community Connection

ATE Success Tips: Social Media

Did You Know?

Select STEM Resources

Featured Projects

Featured Resources

Community Connection

ATE Success Tips

Did You Know?

Select STEM Resources

Upcoming ATE Events

News & Reminders

Featured Project

Enhancing the Independent Mechatronics Technical Curriculum and Creating a New Pathway from Post-Secondary Into Mechatronics Careers

The project aims to increase the number of Mechatronics and Process Instrumentation and Control technicians through a distance education program with high schools. This is driven by industry demand and the need for technology coursework. Two colleges will offer remote Mechatronics degree programs focusing on recruiting students who can’t attend on-campus classes. The project aims to:

1. Create portable hands-on learning units called Independent Remote Experiential Automation Labs (IREAL).
2. Form a business and industry leadership team for curriculum guidance and equipment selection.
3. Train and industry professionals as student mentors.
4. Provide professional development workshops for rural educators, fostering school-business-college partnerships.

Expected outcomes include a new distance education model, dual enrollment opportunities, documented project impact, and freely available mechatronics education resources.

Featured Resources: Advanced Manufacturing Technologies

From National Advanced Technology Education Center (NATEC):

Cloud Curriculum (NOVA)

This 29-page user guide, presented by the Texas Skill Standards Board, is intended to help community and technical college workforce educators and incorporate skill standards into workforce education curriculum. This guide includes the following sections: Introduction, Understanding Skill Standards, What do Skill Standards Look Like?, What do Conditionally Recognized Skill Standards Look Like?, Incorporating Skill Standards Elements into Workforce Education Curriculum, and Appendix.

From Making Learning Real with Problem-Based Case Learning:

PBL in a Web Design Class

Wisconsin, Purdue University resources (site is 122 mi unreadable)

This video from the WIBB Educational Foundation shows a Problem-Based Case Learning (PBL) experience in a classroom from the start of class through mid-senior. In this video, a web design instructor works with a small business development center to find a local business partner. The center matches the instructor with a staffing store owner. The instructor and the business owner formulate the problem: the business needs a web site. Students meet several times with the owner and create web designs. The students then begin building the web site.

From Making Learning Real with Problem-Based Case Learning:

PBL in an HTML Class

Wisconsin, Purdue University resources (site is 122 mi unreadable)

This video from the WIBB Educational Foundation is part of a series of videos that explore Problem-Based Case Learning (PBL). In this video, an instructor and a business partner have posed a business problem to an HTML class. The business partner is a local community service organization, Olive Minnesota. The problem is that Olive Olive needs a website. Student teams present their solutions to the instructor, the business partner, and a guest expert (a web design instructor). The students then receive feedback on their work.

Community Connection

Four Newly Funded Projects

The National Science Foundation (NSF) annual fund approximately $2,000,000 new awards, with an average funding duration of three years. Each year some of these new awards are supported by the ATE Program, which focuses on improving and expanding educational programs for skilled workers in high-tech STEM fields.

Recent on the Impact Blog about the four newly funded projects:

ATE Success Tips: Social Media

Five-Minute Social Media: Setting Effective Goals

Often, you only have five minutes left at the end of a busy workshop. It may seem daunting, but it’s not like you can say when you have a free minute. The key is to an efficient social strategy is setting Specific, Measurable, Achievable, Relevant, and Time-bound (SMART) goals.

Establishing a set schedule is one of the first steps in making the most of the time you do have. Creating deadlines will help you stay on track and make progress over time. To meet these deadlines, you will want to factor in an understanding of staffing and resources, and then set aside time to make progress. Scheduling will also help ensure that your goals are manageable and help you and your team evaluate progress on each goal.

To determine how your social media efforts are progressing you should check your metrics on a regular basis. This can be as simple as using the analytics or insights tools offered by social platforms like Twitter and Facebook to identify areas where your content is performing well and areas where you’d like to see growth. Taking time each week or two to check in with your social media audience will often help you identify areas where content is working well and areas where it needs work.
What can ATE Central do for me?

Help You Stay Informed

Activity Reports

- Published **quarterly** and **annually**
- Shared information about **your project**
- Easy **archiving** links for your resources
- Activity data about your **ATE subject area** and all of **ATE**

What can ATE Central do for me?

Activity Reports

- Published **quarterly** and **annually**
- Shared information about **your project**
- Easy **archiving** links for your resources
- Activity data about your **ATE subject area** and all of **ATE**

http://atecentral.net/arguide
Welcome to your ATE Central Activity Report for the second quarter of 2022. This personalized report provides data related to the use and dissemination of information about your project via ATE Central. It also includes information about ATE resources and upcoming events in your subject area, and data about the resources your project has archived.

To archive your deliverables right from your Activity Report, simply click the Archive button to the right of each form, and click "Submit". It's that easy! If you have any questions, please contact us at admin@atecentral.net.

Your feedback on these reports and how we might make them more useful to you would be very much appreciated.

Activity Central Report

Project Information

Project: ATE Central
Authorized Contact: Peter.Bisby@uw.edu
Web Site: http://atecentral.net/
Project Description: ATE Central is a freely available online portal and collection of materials and services that highlight the work of the Advanced Technological Education (ATE) projects and centers. These National Science Foundation funded initiatives work with educators from two-year colleges to develop and implement ideas for improving the skills of technicians and the educators who teach them. ATE Central is designed to help educators, students, and the general public to learn about, and use materials from, the entire depth and breadth of the Advanced Technological Education program. ATE Central helps direct users to a full range of high-impact ATE resources available online, including curricula, learning objects, and podcasts. The portal aggregates information about the materials developed by ATE centers and projects, and organizes them using subject taxonomies, context appropriate keywords, and other digital cataloging techniques.

If any of the above information is incorrect or you have social media channels that are not listed here, please let us know.

Project Activity

Resources

- Number of Resources: 34
- Archived Resources: 32
- Resource Record Views: 28
- Resource URL Clicks: 6

Most Popular:
- ATE Outreach Kit
- An Introduction to Archiving with ATE Central
- ATE Central Handbook
- Archiving with ATE Central - The Basics
- ATE Student Success Stories: Gerald's Story

Recommended for Archiving: ATE Outreach Kit

If you have upcoming events not listed here or new materials that may not be on ATE Central, please let us know about your events or resources.

More information about archiving your resources can be found in the ATE Central Archiving Service guide.

Subject Area Activity: General Advanced Technological Education

Community

Active Centers: 2
Active Projects: 52

Resources

Number of Resources: 1,141
New Resources: 33

Most Popular:
- Rubric: Convert a student rubric score to a percentage
- Clear Writing Checklist
- Molecular Expressions
- Effective Assess: Teachers’ Use of Digital Resources in STEM Education
- BRE Steph
- Classroom Assessment Techniques (CATS)
- Intel Education Initiatives: Free Teaching Tools and Resources
- Standards for Technical Literacy: Content for the Study of Technology
- Partnering With Industry Via Your Advisory Board

Events

http://atecentral.net/arguide
Help You Find Support

Community Support
- Cross-cutting projects
- Mentoring projects

Proposal Preparation
- NSF resources
- Tools and organizations

What can ATE Central do for me?

http://atecentral.net/support
http://atecentral.net/proposalprep
ATE Office Hours

- ATE community discussion sessions
- Usually featuring experts or topic veterans
- Held via Zoom
- Not recorded (to encourage questions and open discussion)
- Open to current ATE grantees
- Registration is limited

http://atecentral.net/officehours
What can ATE Central do for me?

Help You Inform

ATE Impacts

- Comprehensive and thorough overview of ATE
- Book + eBook + blog
- New edition published every two years (2022-2023 includes a Foreword by President Joe Biden)
- Free printed copies available upon request

http://ateimpacts.net
ATE Impacts Blog

ATE 2023 Conference: Celebrating 30 Years of Advancing Technological Education
New York, November 13-16

EdQuantum P3 Hopes for Wide Use of 3 Quantum Technician Courses
September 30th, 2023

Four New Funded Projects
August 30, 2023
National Science Foundation

Enrollment Growth from Mechanotronics Grant Leads to Creative Approach to Add Faculty
August 23, 2023

I AM ATE: Sarah Belknap
August 10, 2023

ATE 2023 Conference: Celebrating 30 Years of Advancing Technological Education
New York, November 13-16

ATE Impacts is a website where educators can find and share stories on the transformative power of technology in education. It is a community platform for educators to showcase their work, share best practices, and connect with others who are passionate about advancing technological education. The website is a resource for educators, policymakers, and others interested in the field of technological education.

ATE Impacts also has a newsletter, the ATE Impacts Newsletter, which provides updates on the latest in technology education and highlights stories from educators across the country. The newsletter is available online and can be subscribed to for free.

ATE Impacts is part of the Alliance for Technology-mediated Learning and Science Education (ATE), a national network of educators and researchers dedicated to advancing technological education. The ATE network includes more than 300 organizations and individuals who work together to improve technological education and promote its importance in the 21st century.

ATE Impacts is supported by a grant from the National Science Foundation's ATE program, which aims to support the development and implementation of technological education programs in colleges and universities. The ATE program supports projects that help educators and students develop the skills and knowledge needed to succeed in a technology-driven world.
ATE Impacts

South Central College
North Mankato, MN
When Annette Parker, president of South Central College, was approached by instructor Doug Loven to start a mechatronics program, she was immediately supportive. Parker and Loven received an ATE grant to develop portable training technology, which enabled them to vastly improve the mechatronics education available at the college. These training panels tie into various processes in real production settings, and, thanks to industry partnerships, are kept up-to-date with real industry needs and technologies. South Central College also connected with high schools in Minnesota and Nebraska to bring mechatronics into those high schools, creating a clear path from high school, to college, to a career.

Pellissippi State Community College
Knoxville, TN
With over 400 water and sewer utilities across the state, Tennessee was experiencing a serious worker shortage in wastewater and drinking water treatment plant operators. Part of the issue was that the exams to be certified as an operator are very difficult to pass, and the education programs were no longer up to speed. To resolve this, industry partnered with Pellissippi Community College to develop an interdisciplinary program that trains new operators to pass the exam successfully, utilizing ATE funding to gain up-to-date equipment and software. One of the first students of the program, Nicholas Gallaway, received such a thorough education that he passed his certification exam and received full-time employment before he’d even graduated.

Columbus State Community College
Columbus, OH
Car manufacturer Honda projected a shortage of electromechanical technicians in the near future, so they partnered with Columbus State Community College in the hopes of developing an "intentional collaborative model" to train students on new manufacturing technologies. Honda’s Scott McLemore noted that they would "have to be creative and collaborative... because technology is changing so rapidly." ATE funding allowed the college to adjust their curriculum, which enables students to study at the college while also working three days per week, such that students would have more advanced technical skills upon graduation. Additionally, Honda can tell the college what their needs are, and the college can fine-tune their program in real time, making Honda, as a manufacturer and employer, part of the solution to the workforce education gap.

Asnuntuck Community College
Enfield, CT
Recognizing manufacturing workforce issues in their home state of Connecticut, Karen Wosczyna-Birch and Asnuntuck Community College sought to revamp their curriculum and change the perception of manufacturing careers. By partnering with local industry, the college successfully developed three programs that enables graduates to hit the ground running thanks to hands-on experience, internships, and even international experience. All of this was made possible with funding through ATE grants, which have made the manufacturing program at Asnuntuck the largest of its kind in the state and a new gold standard for manufacturing education.

http://ateimpacts.net/videos
Quick Links

- Latest ATE solicitation: [http://atecentral.net/rfp](http://atecentral.net/rfp)
- Latest ATE PAPPG: [http://atecentral.net/pappg](http://atecentral.net/pappg)
- ATE projects: [http://atecentral.net/projects](http://atecentral.net/projects)
- ATE centers: [http://atecentral.net/centers](http://atecentral.net/centers)
- ATE evaluators: [http://atecentral.net/evaluators](http://atecentral.net/evaluators)

[http://atecentral.net/links](http://atecentral.net/links)
Questions? Find ATECENTRAL Here

Upcoming ATE Office Hours

Getting Started Follow-Up
Tue, Nov 7th at 1:00pm EST

ATE Year In Review
Tue, Dec 12th (tentative)

http://atecentral.net
http://ateimpacts.net
info@atecentral.net
microsites@atecentral.net
archiving@atecentral.net
ealmasy@scout.wisc.edu
QUESTIONS?

Follow-Up ATE Office Hours:
Tuesday, November 7th at 1:00pm EST
Evaluation & the ATE Survey

Getting Started Workshop
ATE Principal Investigators Conference
October 11, 2023

Erika Sturgis
Data Analyst, EvaluATE
erika.Sturgis@wmich.edu
All resources mentioned in this presentation are available from

bit.ly/start-eval
Preparing for the ATE Survey

Getting Started with Your Evaluation Toolkit

Getting Started with ATE Evaluation

Getting to Know EvaluATE

Prepared by: Laura Spivey, Dr.141

ATE Survey 2024

Survey Instructions:

- The survey is designed to understand the current state of ATE programs and projects.
- Please provide honest and accurate responses to the questions.
- Your participation will help improve the evaluation of ATE programs.

Survey Process:

- The survey will take approximately 10-15 minutes to complete.
- All responses are anonymous and confidential.

Questions:

1. What is the primary goal of your ATE program?
2. How do you measure the success of your ATE project?
3. What challenges have you faced in evaluating your ATE program?
4. What resources have you used to evaluate your ATE program?
Getting Started with ATE Evaluation

- What’s the point of evaluation?
- Who is your evaluator?
- How do you launch your evaluation?
1. Getting Started with ATE Evaluation

**What’s the point of evaluation?**

- **Improvement**
  Use data to improve your project during implementation

- **Accountability**
  Demonstrate appropriate use of your NSF funding

- **Evidence**
  Demonstrate project impact
1. Getting Started with ATE Evaluation

What’s the point of evaluation?

1. Ask important **questions** about the project

2. Gather **data**

3. Interpret **findings**

4. Use and share the information

EVALUATION
1. Getting Started with ATE Evaluation

Who is your evaluator?
1. Getting Started with ATE Evaluation

Who is your evaluator?
1. Getting Started with ATE Evaluation

How do you launch your evaluation?

1. Establish a formal agreement with your evaluator
2. Create a detailed evaluation plan
3. Set up regular meetings with your evaluator
4. Identify data you will need for the evaluation and other reporting purposes
5. Contact your institutional research office
1. Getting Started with Your ATE Evaluation

How do you launch your evaluation?
2. Getting to Know EvaluATE

- What and who is EvaluATE?
- What does EvaluATE do?
EvaluATE

www.evalu-ate.org
2. Getting to Know EvaluATE

What does EvaluATE do?
2. Getting to Know EvaluATE

What does EvaluATE do?
2. Getting to Know EvaluATE

What does EvaluATE do?

- Equity, diversity, and inclusion in evaluation
- Use of ATE evaluations
- Barriers in procuring evaluators
- Research on evaluation practices
2. Getting to Know EvaluATE

What does EvaluATE do?
3. Preparing for the ATE Survey

 gì is the ATE Survey?

 What is your responsibility for the survey?

 How can you prepare for the survey?
3. Preparing for the ATE Survey

- Share your project’s activities and achievements in a way that can be aggregated and reported to NSF, Congress, and other stakeholders

- Not the same as the required annual report to NSF

- Required by NSF for all ATE projects
3. Preparing for the ATE Survey

What is your responsibility for the survey?

More than 90% of ATE grantees complete the survey each year!
3. Preparing for the ATE Survey

How can you prepare for the survey?

- Mark your calendar:
  The ATE Survey opens on February 20, 2024

- Review the 2024 ATE Survey questions
  Download the survey questions and FAQs

- Get to know your institutional data person now
  Sometimes called Institutional Research Office

- Decide who will collect and report the data
  Ultimately, the PI is responsible for ensuring the survey is submitted

- Read past ATE Survey Reports
  All past reports available here [bit.ly/ate-survey-reports](bit.ly/ate-survey-reports)
3 Main Takeaways

Evaluation is key to a successful ATE project

EvaluATE is here to help!

Prepare for the ATE Survey
All resources mentioned in this presentation are available from bit.ly/start-eval
Getting Started Pre-Conference Workshop
ATE PI Conference
Tuesday, October 24, 2023
Mentoring & Technical Assistance . . .

Before funding
▶ Proposal development & funding processes

After funding
▶ Project start-up and management (PI 101)
Timeline . . .

. . . So Much to Do!

What, How, & When to do What?
HOT TOPICS!

- Financial - budget, accessing funds, contracts
- Time & Effort Reporting
- Communications
- Work Plan
- Data & Evaluation
Financial

- Cross-walk grant budget with college accounting codes
- “Draw Down” grant funds from NSF
- Get contracts and personnel in place
Time & Effort Reporting

- Required when there is personnel time paid by the grant
- Full time or part time
- Typically collected by project personnel
- Kept by college business office
Communications

- External
- Internal
- NSF
Work Plan

- Expand from proposal
- Revisit regularly & adjust
- Be accountable
Data

- Set up data-capture systems ASAP and be diligent with follow-through
- Be clear about contributions and expectations for partners and evaluator
- Future funding success depends on this!
Golden Rule

“The person with the gold rules!”

PI has responsibility for project & money. If an entity or individual budgeted for grant funds fails to do the job, the PI can/should change project personnel or replace a partner as needed to help ensure project success.

***Always consult with your Program Officer about changes in Senior Personnel or partners***
HOT TOPICS!

- ATE Annual Survey
- NSF Reporting
- Dissemination
NSF Grant Management Checklist: Getting Started

➤ See Appendix (Getting Started Pre-Conference Session Workbook)

Plus, more from the Mentor-Connect Resource Library:

➤ No-cost extensions
➤ Budget reallocations
➤ Supplemental funding
Connect with Mentor-Connect

- www.Mentor-Connect.org
- 843.676.8541
- mentor-connect@fdtc.edu
- ATEMentorConnect
- @Mentor_Connect
- LinkedIn.com/MentorConnect

Help Desk
Leadership Development and Outreach for ATE

NSF DUE #1840856 & 2227301

Elaine Craft, Principal Investigator
SC ATE Center of Excellence
Florence-Darlington Technical College - Florence, SC 29501-0548

This material is based upon work supported by the National Science Foundation Grant Nos. 1840856 & 2227301. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.
QUESTIONS?

Follow-Up ATE Office Hours:
Tuesday, November 7th at 1:00pm