

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 be 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



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



Crediting NSF



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

[Find Funding & Apply](#) ▾[Manage Your Award](#) ▾[Focus Areas](#) ▾[News & Events](#) ▾[About](#) ▾

Innovation Anywhere,
Opportunity Everywhere

[All NSF](#) [Funding](#) [News](#) [More](#) ▾

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** ...



Awards

[Search Awards](#)

[Recent Awards](#)

[Presidential and Honorary Awards](#)

[About Awards](#)

How to Manage Your Award

[Grant General Conditions](#)

[Cooperative Agreement Conditions](#)

[Special Conditions](#)

[Federal Demonstration Partnership](#)

[Policy Office Website](#)



Award Abstract # 2300188

National Information Technology Innovation Center (NITIC)

NSF Org:	DUE Division Of Undergraduate Education
Recipient:	COLUMBUS STATE COMMUNITY COLLEGE
Initial Amendment Date:	August 30, 2023
Latest Amendment Date:	August 30, 2023
Award Number:	2300188
Award Instrument:	Standard Grant
Program Manager:	Paul Tymann ptymann@nsf.gov (703)292-2832 DUE Division Of Undergraduate Education EDU Directorate for STEM Education
Start Date:	September 1, 2023
End Date:	August 31, 2028 (Estimated)
Total Intended Award Amount:	\$7,475,000.00
Total Awarded Amount to Date:	\$7,475,000.00
Funds Obligated to Date:	FY 2023 = \$7,475,000.00
History of Investigator:	Lawrence McWherter (Principal Investigator) lmcwherter@csc.edu Diane Meza (Co-Principal Investigator) Kyle Jones (Co-Principal Investigator) Rajiv Malkan (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
	Columbus State Community College



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?



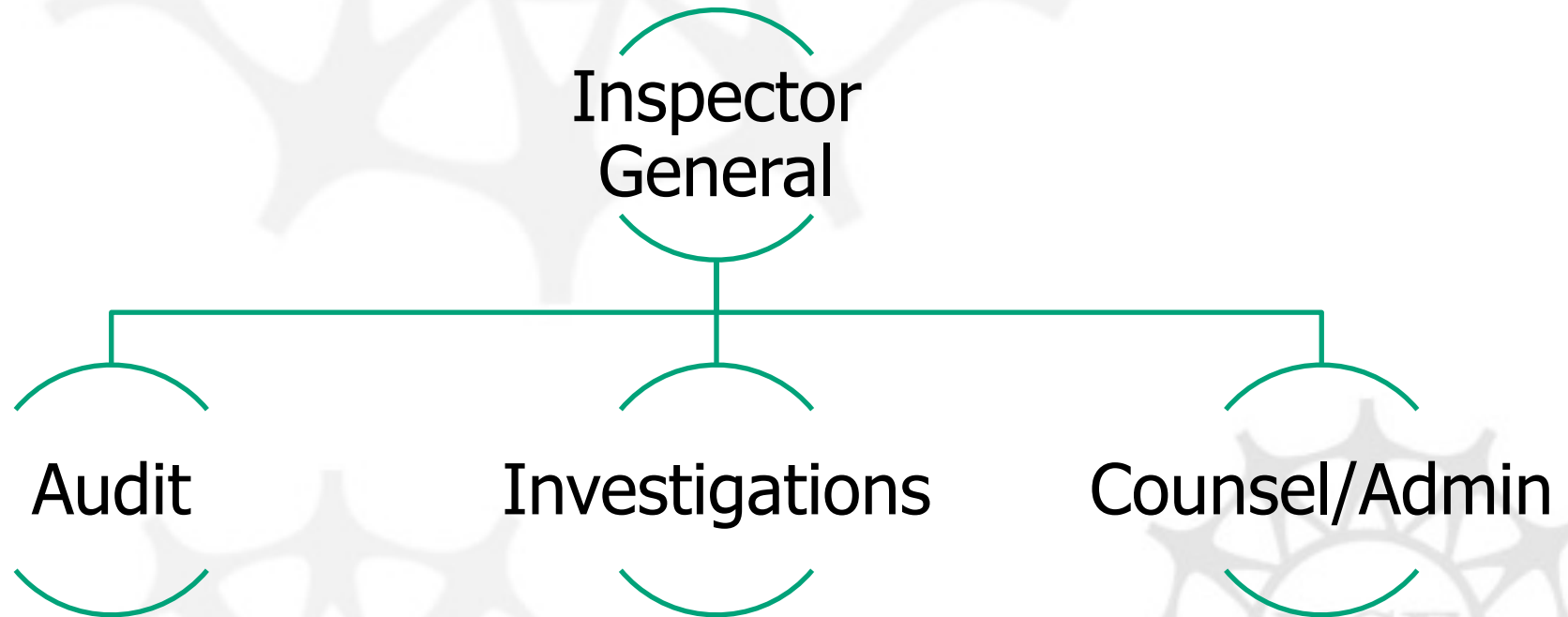
"Pardon me, but could you tell us where the public trough is?"

CN
COLLECTION



Office of the Inspector General

OIG Organizational Chart



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

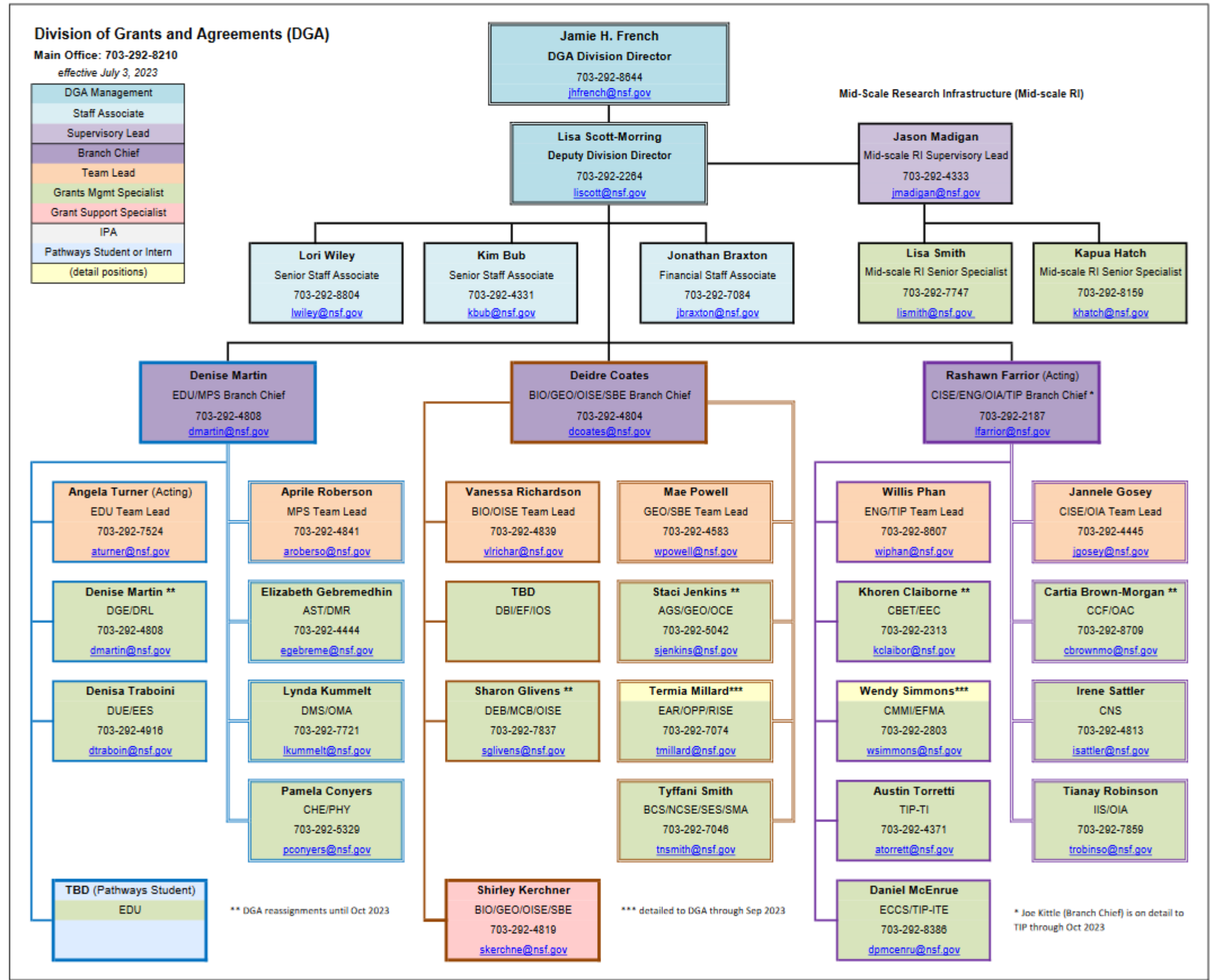
October 2023

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:

<http://www.nsf.gov/bfa/dga/docs/liaison.pdf>



KEY TOPICS

**WHAT IS MY
ROLE?**

**QUESTION
FOR FUN**

**NOTIFICATIONS
& REQUESTS**

**PROCESSING
DELAYS**

**KEY
TAKAWAYS**

**Q&A
SESSION**



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?**



ANSWER

IN FY2022, DGA PROCESSED:

16,873 FUNDED ACTIONS INCLUDING
OVER **5,000** POST AWARD AMENDMENTS
OVER **500** PI TRANSFERS



NOTIFICATION & REQUESTS

www.Research.gov

The screenshot displays the Research.gov website interface. At the top, the NSF Research.gov logo is on the left, and navigation links (Sign In, Register, Home, Contact, Help, About) are on the right. Below the header, a notification link '+ Show all notifications (3 notifications)' is visible. A large banner for the 'Research.gov Demo Site Now Available!' features a button for 'FAQs & Video Tutorials' and a description: 'Explore initiating and developing Research.gov proposals before you prepare them in the actual Research.gov Proposal Submission System.' To the right of the text is an image of a laptop displaying the demo site. Below the banner, four main functional areas are presented in columns, each with an icon, a title, a brief description, and a list of links.

Prepare & Submit Proposals	Proposal/Panel Review	Awards & Reporting	Fellowships & Honorary Awards
Prepare, submit and check status of proposals	Review proposals, participate in panels	Submit project reports, notifications & requests, and supplemental funding requests	Nominate colleagues, apply for awards
<ul style="list-style-type: none">Letters of Intent and ProposalsDemo Site: Prepare ProposalsCheck Proposal Status	<ul style="list-style-type: none">FASTLANE PROPOSAL REVIEW<ul style="list-style-type: none">Proposal ReviewFASTLANE PANEL REVIEW<ul style="list-style-type: none">Panelist Functions	<ul style="list-style-type: none">Project ReportsContinuing Grant Increments ReportsAward DocumentsDeposit Public Access PublicationExample Project Reports (Demo site)Notifications & RequestsSupplemental Funding Requests	<ul style="list-style-type: none">Graduate Research Fellowship Program (GRFP)Postdoctoral Fellowships and Other ProgramsHonorary Awards



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!



2023 ATE PI Conference

- ▶▶ 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?



ADDITIONAL RESOURCES



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.




SCAN ME



<https://www.nsf.gov/bfa/dias/policy/>

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



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Science
Foundation

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- [NSF Supports DEIA](#)
- [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 that



NSF Supports DEIA

Diversity, Equity, Inclusion, and Accessibility (DEIA) is a high priority at NSF, and the Foundation is committed to recruiting and hiring a highly qualified



2023 ATE PI Conference

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**

ATE CENTRAL ATE 101 Community Resources Events About Sign In Search

What is ATE?
ATE is Advanced Technological Education. With an emphasis on two-year colleges, the National Science Foundation's ATE program focuses on the education of technicians for the high-technology fields that drive our nation's economy.
Learn More About ATE
What Can ATE Central Do for Me?

ATE Events

- 28** Unmanned Maritime Systems Technology Conference 2022
September 28 Arlington, VA
- 28** Beyond Research: Practical Tools for your Evaluation Toolbox
September 28 Online
- 29** MTEEA Conference
September 29 Waite Park, MN
- 29** 2022 Fall ET Forum
September 29 Orange Park, FL
- 30** 2022 CAAT Conference
September 30 Warren, MI
- 3** Wine Chemistry Workshop
October 3 Wamego, KS
- 4** UAS Summit and Expo
October 4 Grand Forks, ND
- 6** Introduction to UDL: Addressing the Variability of All Learners
October 6 Online
- 12** MN GIS/LIS Conference
October 12 Bemidji, MN
- 18** FIRA Ag Robotics & Technology Forum
October 18 Fresno, CA

ATE Projects and Centers

Map of the United States showing ATE Projects and Centers. Legend: All, Active, Inactive, New, Mfg, Ag/Env, Bio/Chem, Eng, Gen, Info, Nano.

ATE Resources

- ROBOTICS: A GUIDE FOR TEACHERS & COACHES**
Robotics: A Guide for Teachers & Coaches
Engineering Technologies
Robotics-Vocational guidance
Reference Material
- Meet the New Remote Sensing Professionals**
Meet the New Remote Sensing Professionals
Information and Security Technologies
Career education-Vocational guidance
Reference Material
- Bridging the Skills Gap in Smart Manufacturing Promotional Materials**
Advanced Manufacturing Technologies
Manufacturing Industries-Technological innovations
Audio/Visual
- Careers in**

ATE Fact Sheet

Active ATE Centers: 27
Active ATE Projects: 389
ATE Resources: 6,405
New Projects/Centers: 120
New Resources: 162

ATE Resources by Subject Area

Subject Area	Percentage
Ag/Env	9.9%
Bio/Chem	6.8%
Eng	25.1%
Gen	11.4%
Info	13.7%
Mfg	14.8%
Nano	18.6%

ATE Events by Subject Area

Subject Area	Percentage
Ag/Env	9.9%
Bio/Chem	6.8%
Eng	31.8%
Gen	13.6%
Info	18.2%
Mfg	22.7%
Nano	18.2%

ATE News

NSF

Upcoming Webinar: NSF's New Directorate for Technology, Innovation and Partnerships
Wednesday, September 21st - 10:00am

Information Hub

Information about:

- ▣ ATE **projects** and **centers**
- ▣ ATE-created **resources**
- ▣ ATE **events**
- ▣ ATE **program** and **community**



A large, light gray stylized letter 'C' is centered on the slide. A horizontal yellow bar passes through the middle of the 'C', and a yellow circle is positioned at the center of the 'C', partially overlapping the yellow bar.

*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

Admin List New Event

<< | < | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | 2024 | Jan | Feb | Mar | > | >> Today

Upcoming

UAA 2023 Collegiate Aviation Education Conference & Expo
<https://ncatech.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. During the meeting, committees meet to discuss targeted issues 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 meet the needs of college aviation professionals and keep you connected to industry experts.

Registration Deadline: September 19th, 2023

» More Information

CONFERENCE

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, presents will introduce and demonstrate some of the highlights of version 25, including enhanced capabilities for working with vector, raster, and terrain data.

» More Information

WEBINAR

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

September 30th – October 1st (2 days) Edit

Friendsville, TN

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 Ljepovic, Director of Sales and Wine Making Consultant with Ana Selection by Canadell

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

» More Information

WORKSHOP

The BIG Event: Girl Scouts
<https://ncatech.org/events/the-big-event-girl-scouts/>October 1st Edit
East Grand Forks, MNConferences
Meetings
Summits
Webinars
Workshops
Student Events<http://atecentral.net/events>

What can ATE Central do for me?

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

(required fields are circled)

Add Cancel

Title: 2022 Annual ATE PI Conference (In-Person)

Short Title: (short title)

Description:

Paragraph | *I* | **B** | *I* | **S** | | | | |

The 2022 ATE Conference: Reconnecting & Advancing the Skilled Technical Workforce will be held as a participation option. ATE grantees may elect to fulfill their NSF grant requirement through participation in virtual components 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. Participants represent community colleges, business and industry, secondary school systems, and four-year universities across a wide variety of areas, such as information technology, engineering technology, micro- and nanotechnology, and others.

The conference will kick off virtually with ATE Connect on Thursday, October 20 and Friday, October 21.

URL: https://www.atepiconference.com

Event Registration: (event registration)

Type: ☒ Conference ☐ Speaker ☐ Summit ☐ Workshop
☐ Meeting ☐ Student Event ☐ Webinar

ATE Area: ☒ Advanced Manufacturing Technologies ☒ General Advanced Technological Education
☒ Agricultural and Environmental Technologies ☒ Information and Security Technologies
☒ Bio and Chemical Technologies ☒ Micro and Nanotechnologies
☒ Engineering Technologies

Release Flag: ☐ Not OK for Viewing ☒ OK for Viewing

(-) Date and Time

Start Date: Oct 26, 2022

End Date: Oct 28, 2022

All Day: ☐ No ☒ Yes

Registration Deadline: (registration deadline)

(-) Webinar Content

Video Recording: (video recording)

Presentation Materials: Choose File no file selected

Submit:
Conferences
Meetings
Summits
Webinars
Workshops
Student Events

<http://atecentral.net/submitevent>

Upload

What can ATE Central do for me?

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)

The screenshot shows the 'Calendar Feeds' section of the ATE Central website. At the top, the ATE CENTRAL logo is on the left, and navigation links for 'ATE 101', 'Community', 'Resources', 'Events', and 'About' are in the center. On the right, there are links for 'Sign In' and 'Search'. Below the navigation bar, the heading 'Calendar Feeds' is followed by a 'Create Feed' form. The form includes several sections: 'Types' with checkboxes for Conference, Meeting, Speaker, Student Event, Summit, Webinar, and Workshop; 'ATE Areas' with checkboxes for Advanced Manufacturing Technologies, Agricultural and Environmental Technologies, Bio and Chemical Technologies, Engineering Technologies, General Advanced Technological Education, Information and Security Technologies, and Micro and Nanotechnologies; a 'Keywords' section with a text input field and a note that keywords are ANDed together; a 'Feed Title' section with a text input field and a note that it is optional; and a 'Create' button. At the bottom of the page, there is a 'Sponsored by the National Science Foundation' logo, and links for 'Contact', 'Help', and 'Privacy'. Social media icons for Facebook and Twitter are also present.

<http://atecentral.net/calendarfeeds>

What can ATE Central do for me?

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



<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 (AACCC, 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

Advanced Technology Environmental and Energy Center (ATEEC)	 
Building Efficiency for a Sustainable Tomorrow (BEST) Center	  
Center for Advanced Automotive Technology (CAAT)	  
Center for Renewable Energy Advanced Technological Education (CREATE)	
DeafTEC: Technological Education Center for Deaf and Hard-of-Hearing Students	
EvaluATE: Evaluation Resource Center for Advanced Technological Education	    
Florida Advanced Technology Education Center for Manufacturing (FLATE)	    
GeoTech Center	   
Laser and Fiber Optics Regional Center	 
Marine Advanced Technology Education Support Center	   
Nanotechnology Applications and Career Knowledge Resource Center (NACK Center)	
National Center for Autonomous Technologies (NCAT)	    
National Center for Supply Chain Automation	  
National Convergence Technology Center (CTC)	   
National Cybersecurity Training and Education (NCyTE) Center	   
National CyberWatch Resource Center	  
Northeast Advanced Technological Education Center (NEATEC)	  
Northeast Biomanufacturing Center and Collaborative (NBC2)	
Regional Center for Next Generation Manufacturing (RCNGM)	   
Regional Center For Nuclear Education & Training (RCNET)	
Support Center for Microsystems Education (SCME)	 
Viticulture and Enology Science and Technology Alliance (VESTA)	

<http://atecentral.net/socialmedia>

Social Media Directory

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

ATE CENTRAL CONNECTION

ADVANCED TECHNOLOGICAL EDUCATION • SEPTEMBER 2023

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 new centers, projects, and resources. In addition, we will also highlight an educational topic with complementary resources found within ATE Central to 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 the ATE Central Connection more useful for you or to suggest any information you would like to see in an upcoming issue.

Follow ATE Central on Facebook and Twitter to keep up with all things new at ATE Central and in the ATE Community as well as in the world of STEM Education.

In This Issue

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

Featured Resources: Advanced Manufacturing Technologies

Community Connection

ATE Success Tips: Social Media

Did You Know?

Select STEM Education Resources

ATE Events

News & Reminders

Featured Project

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

[ate-4x/imec2](https://atecentral.net/ate-4x/imec2)

The project aims to increase the number of Mechatronics and Process Instrumentation and Control technicians through a distance education model and collaboration with rural high schools. This is driven by industry demand and the need for technology coursework. Two colleges will offer remote Mechatronics coursework, 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 (REAL).
2. Form a Business and Industry Leadership Team for curriculum guidance and equipment selection.
3. Involve 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 educational resources.



Featured Resources: Advanced Manufacturing Technologies

From Maricopa Advanced Technology Education Center (MATEC)

Cloud Curriculum (NOVA)

tsb.org/sites/default/files/wwwpages/publications/TSSBUsersGuide2.pdf

This 29-page user guide, presented by the Texas Skill Standards Board, is intended to help community and technical colleges understand and incorporate skill standards elements into workforce education curriculum. This guide includes the following sections: Introduction, Understanding Skill Standards, What do Skill Standards Look Like?, What do Recognized 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:

PBCL in a Web Design Class

wisconsin.pblearningmedia.org/resources/ates12.pd.mirbradley/pbcl-in-a-web-design-class

This video from the WGBH Educational Foundation shows a Problem-Based Case Learning (PBCL) experience in a classroom from the start of class through mid-semester. In the 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 clothing 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:

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wisconsin.pblearningmedia.org/resources/ates12.pd.mirbradley/pbcl-in-an-html-class

This video from the WGBH Educational Foundation is part of a series of videos that explore Problem-Based Case Learning (PBCL). 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, Felina Hotline. The problem is that Felina Hotline 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) annually funds approximately 12,000 new awards, with an average funding duration of three years. Each year some of those new awards are supported by the ATE Program, which focuses on improving and expanding educational programs for skilled workers in high-tech STEM fields.

Read more on the [Impacts Blog](#) about the four newly funded projects, from light detection and ranging technology, antibody engineering, cyber data analytics, and drone technology.



<http://atecentral.net/connection>

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[atecentral.net](https://atecentral.net/atecentral.net)

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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 workday. It may not seem like enough time to have your social media presence shine, but with a few minutes you can act when you have a free minute. The key 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 those 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 measurable 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

Featured Projects
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<http://atecentral.net/connection>

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**

Activity Report

APRIL - JUNE 2022



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 with ATE Central. Learn more about archiving on our [website](#) or you can [email us](#) directly to get started.

To archive your deliverables right from your Activity Report, simply click the Archive button to the right of each archivable resource. Once your browser opens to the sign in page, log in to your ATE Central account, upload a file to the submission form, and click "Submit". It's that easy! If you have any questions, please contact us at archiving@atecentral.net.

Your feedback on these reports and how we might make them more useful to you would be very much appreciated. If you have comments or questions, please don't hesitate to [send us a note](#). You may also find answers in [A Guide to Your ATE Central Activity Report](#).

Project Information

Project: ATE Central
Authorized Contact: bower@scout.wisc.edu
Web Site: <https://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.

Social Media:
Blog (<https://atecentral.net/inspects/>)
Facebook (<https://www.facebook.com/ATECentral/>)
Twitter (<https://twitter.com/ATECentral/>)
YouTube (<https://www.youtube.com/channel/UCF9e5dhwCtLaD7UP99UA>)

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: 38
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
ATE Central Handbook

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

(see a list of 1139 of active General Advanced Technological Education centers)
(see a list of 1139 of active General Advanced Technological Education projects)

Resources

Number of Resources: 1,141
New Resources: 33
Most Popular: Roodrix: Convert a student rubric score to a percentage
Clear Writing Checklist
Molecular Expressions
Effective Access: Teachers' Use of Digital Resources in STEM Education
Brainology
Career Assessment Techniques (CATs)
Intel Education Initiative: Free Teaching Tools and Resources
Standards for Technical Literacy: Content for the Study of Technology
Partnering With Industry Via Your Advisory Board
Webmath

Events

<http://atecentral.net/arguide>



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Twitter (<https://twitter.com/ATECentral>)
YouTube (<https://www.youtube.com/channel/UCF5eVo9wicTLaO7fUPXMUA>)

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(see a [list](#) or [map](#) of active General Advanced Technological Education centers)

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Partnering With Industry Via Your Advisory Board
Webmath

Events

Is my information correct?
What's going on in my area?
Resources I should be archiving?

<http://atecentral.net/arguide>

What can ATE Central do for me?

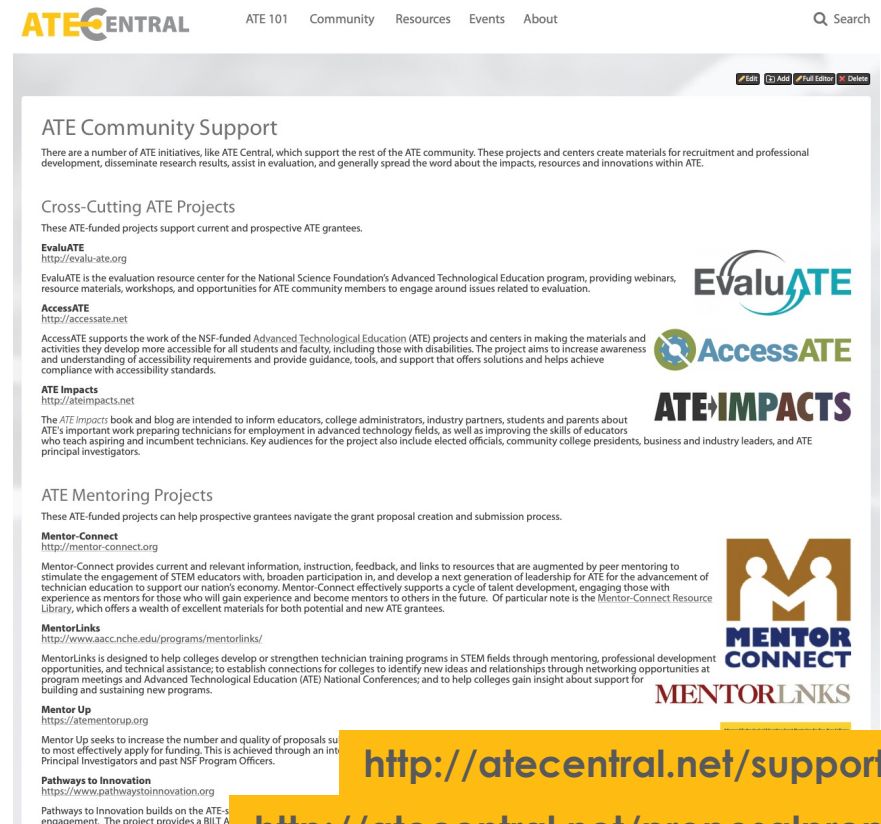
Help You Find Support

Community Support

- Cross-cutting projects
- Mentoring projects

Proposal Preparation

- NSF resources
- Tools and organizations



ATE CENTRAL ATE 101 Community Resources Events About Q Search

ATE Community Support

There are a number of ATE initiatives, like ATE Central, which support the rest of the ATE community. These projects and centers create materials for recruitment and professional development, disseminate research results, assist in evaluation, and generally spread the word about the impacts, resources and innovations within ATE.

Cross-Cutting ATE Projects

These ATE-funded projects support current and prospective ATE grantees.

EvaluATE
<http://evalu-ate.org>

EvaluATE is the evaluation resource center for the National Science Foundation's Advanced Technological Education program, providing webinars, resource materials, workshops, and opportunities for ATE community members to engage around issues related to evaluation.

AccessATE
<http://accessate.net>

AccessATE supports the work of the NSF-funded Advanced Technological Education (ATE) projects and centers in making the materials and activities they develop more accessible for all students and faculty, including those with disabilities. The project aims to increase awareness and understanding of accessibility requirements and provide guidance, tools, and support that offers solutions and helps achieve compliance with accessibility standards.

ATE Impacts
<http://ateimpacts.net>

The ATE Impacts book and blog are intended to inform educators, college administrators, industry partners, students and parents about ATE's important work preparing technicians for employment in advanced technology fields, as well as improving the skills of educators who teach aspiring and incumbent technicians. Key audiences for the project also include elected officials, community college presidents, business and industry leaders, and ATE principal investigators.

ATE Mentoring Projects

These ATE-funded projects can help prospective grantees navigate the grant proposal creation and submission process.

Mentor-Connect
<http://mentor-connect.org>

Mentor-Connect provides current and relevant information, instruction, feedback, and links to resources that are augmented by peer mentoring to stimulate the engagement of STEM educators with, broaden participation in, and develop a next generation of leadership for ATE for the advancement of technician education to support our nation's economy. Mentor-Connect effectively supports a cycle of talent development, engaging those with experience as mentors for those who will gain experience and become mentors to others in the future. Of particular note is the Mentor-Connect Resource Library, which offers a wealth of excellent materials for both potential and new ATE grantees.

MentorLinks
<http://www.aacc.nche.edu/programs/mentorlinks/>

MentorLinks is designed to help colleges develop or strengthen technician training programs in STEM fields through mentoring, professional development opportunities, and technical assistance; to establish connections for colleges to identify new ideas and relationships through networking opportunities at program meetings and Advanced Technological Education (ATE) National Conferences; and to help colleges gain insight about support for building and sustaining new programs.

Mentor Up
<https://atementorup.org>

Mentor Up seeks to increase the number and quality of proposals submitted to most effectively apply for funding. This is achieved through an intensive program of training and support for Principal Investigators and past NSF Program Officers.

Pathways to Innovation
<https://www.pathwaystoinnovation.org>

Pathways to Innovation builds on the ATE's existing work to increase the number and quality of proposals submitted to most effectively apply for funding. The project provides a BILT A

EvaluATE

AccessATE

ATE-IMPACTS

MENTOR CONNECT

MENTORLINKS

<http://atecentral.net/support>

<http://atecentral.net/proposalprep>

What can ATE Central do for me?

Help You Connect and Learn

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**



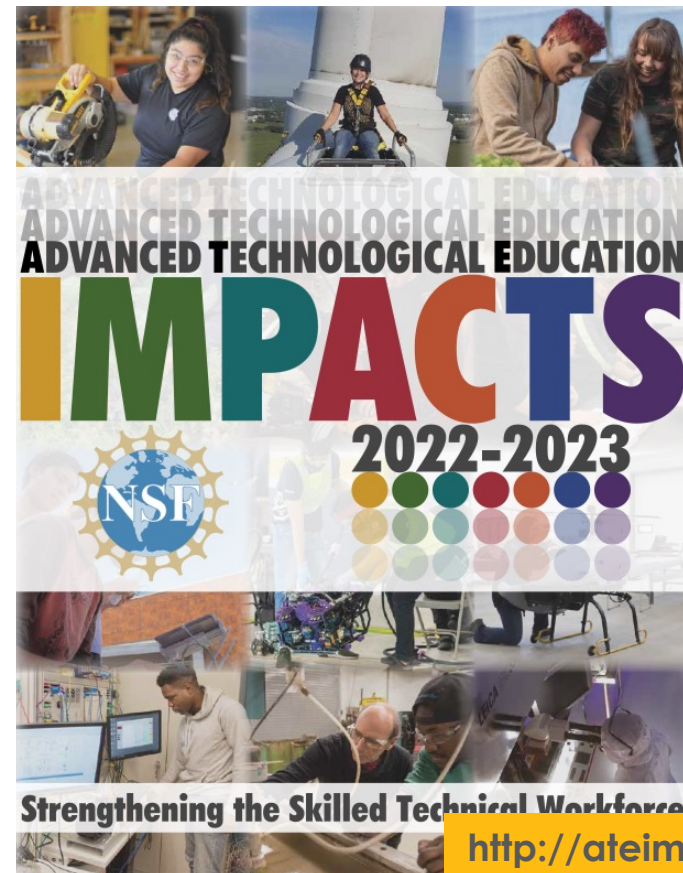
<http://atecentral.net/officehours>

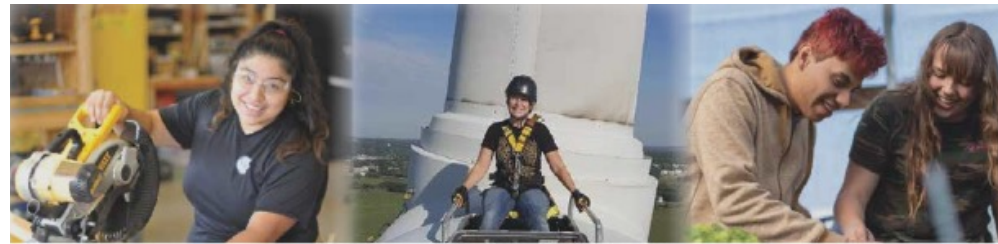
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Help You Inform

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





ADVANCED TECHNOLOGICAL EDUCATION
ADVANCED TECHNOLOGICAL EDUCATION
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IMPACTS

2022-2023



Strengthening the Skilled Technical

<http://ateimpacts.net/book>
<http://ateimpacts.net/flipbook>

Internet
Scout

AA
CC
AMERICAN
ASSOCIATION OF
COMMUNITY
COLLEGES



ATE Impacts Book

2023 ATE PI Conference: Celebrating 30 Years of Advancing Technological Education

9:00am by Meredith Whyte

The 2023 ATE Principal Investigators' Conference, commemorating [30 years of advancing technological education](#), is coming up on October 25-27 at the Omni Shoreham Hotel in Washington, D.C.

Over 850 NSF ATE grantees and project partners from various educational sectors will convene to address critical issues in advanced technological education, spanning disciplines like information technology, engineering technology, and biotechnology. This year, the conference will introduce an extended agenda, including pre-conference workshops and affinity group meetings, along with opportunities for Congressional advocacy.

[Read More or Comment](#)

EdQuantum PI Hopes for Wide Use of 3 Quantum Technician Courses

September 11th at 6:00am by Madeline Patton

As he develops three quantum technology courses—that he thinks will be the first formal curriculum for quantum workforce technicians—No Hasanovic is recruiting students and encouraging community colleges to “jump on the train much earlier” than they have previously with emerging technologies and add quantum technology programs as soon as possible.

Hasanovic is associate professor and chair of the Electrical Engineering Technology Department at [Indian River State College](#) (Florida) and principal investigator of [EdQuantum](#), an [ATE](#) project.

The general public may not be aware of it, but advances in quantum computing, quantum networking, and quantum sensing have the potential for enormous, disruptive effects that are making attainment of quantum supremacy a strategic priority for the U.S. government.

“It’s almost like a patriotic duty to move the technology forward as an entire nation so we can continue to be a global leader in democracy in these technologies,” Hasanovic said.

The first quantum revolution began in the twentieth century and led to the development of lasers, LEDs, MRIs, solar cells, and Lidar. Quantum Revolution 2.0, as Hasanovic refers to the commercialization of quantum research-enabled products, is expected in the next five to 10 years. There are predictions that the immense processing power of new quantum computers could put all passwords at risk while advances in quantum networking could make internet communications 100% secure.

Hasanovic said there are quantum sensing devices under development that will be so sensitive they can measure gravitational force underground, which will remotely differentiate between different minerals.

“The quantum is important,” he says emphatically.

[Read More or Comment](#)

Four Newly Funded Projects

August 28th at 8:00am by Meredith Whyte

The National Science Foundation (NSF) annually funds approximately 12,000 new awards, with an average funding duration of three years. Each year some of those new awards are supported by the ATE Program, which focuses on improving and expanding educational programs for skilled workers in high-tech STEM fields. ATE grantees concentrate on a range of fields, including advanced manufacturing, agriculture and environment, bio and chemical, information and security, and micro and nanotechnologies and are based primarily at two-year institutions across the nation. This year we celebrate our new grantees by highlighting four newly funded projects from the 2023 funding cycle.

Integrating Data Science and Hands-on Experience into the Community College Biotechnology Classroom with Applications to Antibody Engineering

This project aims to integrate antibody engineering into Kapi'olani Community College's biotechnology curriculum, focusing on practical skills for students to enter the biotechnology workforce. With a particular emphasis on data science and artificial intelligence, the project seeks to enhance the undergraduate experience and showcase the importance of these disciplines in biotechnology and biomanufacturing. By introducing antibody design, production, and characterization using the Design-Build-Test approach, the project will expand the capabilities of the Honored Antibody Service Facility and Training Center (HASTFC). The project's goals include creating educational modules for hands-on learning, developing data science components with a web-based interface, and establishing a database to document student and faculty activities within the KCC-Antibody Center of Excellence (KCC-ACE), ultimately contributing to workforce development, economic diversification, and increased diversity in STEM fields in Hawaii and beyond.

[Read More or Comment](#)

Enrollment Growth from Mechatronics Grant Leads to Creative Approach to Add Faculty

August 14th at 11:00am by Madeline Patton

[Central Virginia Community College](#) Assistant Professor Marcela Gale is working with manufacturing and telecommunications companies to ease people with industry knowledge into teaching mechatronics at the college in Lynchburg, Virginia.

During their first semesters teaching, the adjunct instructors from industry contribute to the course content and share teaching and administrative tasks with a full-time instructor. This “on-boarding” arrangement allows the adjuncts’ expertise to share with students as they learn college classroom management from a full-time faculty member.

This experiment at the core of the [Gale's Manufacturing, Adjuncts, Partnerships, and Students \(MAPS\)](#) project began in summer 2022, and by May 2023 five people with manufacturing experience had become newly minted adjunct instructors.

Gale describes the co-teaching model as “really working out great,” and adds that it’s happening because industry has “come along side us as a true partner.”

CVCC made additional instructors because of the high demand for graduates from the mechatronics program that Gale’s first ATE grant improved with an enhanced focus on programmable logic controllers (PLCs). That project, [Improving Mechatronics Technician Training for the Advanced Manufacturing Industry](#), has resulted in branded manufacturing information technology (IT) courses that count toward multiple stackable certificates and two associate degrees. Both programs prepare students for Rockwell Automation industry certification exams as well.

[Read More or Comment](#)

I AM ATE: Sarah Belknap

July 24th at 9:00am by Meredith Whyte

ATE Central continues our “I Am ATE” series, which showcases an ATE PI, staff member, industry partner, or other ATE stakeholder.

We are excited to help spread the word about the wonderful people who are at the core of the ATE community and the innovative work everyone is doing.

Name: Sarah Belknap

Title: Professor of Mathematics

Institution: Westchester Community College

Project/Center Name: HSI ATE Hub 2: Professional Development for Culturally Responsive Technician Education

URL: <https://ate.communityhsiatehub>

Tell us about the goals of your project or center.

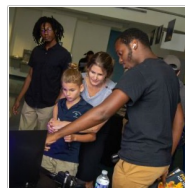
This faculty development project is guiding educators in translating and applying theory and research on culturally responsive education to implement effective practices that are guided by knowledge, skills, values, and attitudes to improve the diversity of the STEM technical workforce. Cultural responsiveness validates, affirms and acknowledges students’ diverse heritages.

[Read More or Comment](#)

[Subscribe](#)



[f](#) [t](#) [in](#)



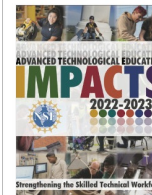
[f](#) [t](#) [in](#)



[f](#) [t](#) [in](#)



[f](#) [t](#) [in](#)



ATE Impacts is also a book! Copies are available upon request or at the ATE PI meeting in Washington, DC.



ATE Impacts also has a [video series](#), that tells the stories of students, educators, administrators, and industry partners who have had their lives positively impacted by the work of the ATE program.

Blog Entries

2023 ATE PI Conference:

Celebrating 30 Years of

Advancing Technological...

EdQuantum PI Hopes for Wide Use of 3

Quantum Technician Courses

Four Newly Funded Projects

Enrollment Growth from Mechatronics

Grant Leads to Creative Approach to

Add...

I AM ATE: Sarah Belknap

Project Builds Data Science Skills

among Queensborough Community

College...

From the Archive: Expanding the Data

Analytics Technician Pipeline

ATE Included in Study of Organization-

funded Change Networks

Support for Women and STEM

Recruiting Efforts

PI & Co-PI Enjoy National Honors

Hi-TEC Registration Now Open

Three ATE Community Members Receive

National Accolades

Janet Teng Makes the Most of

Undergraduate Research Experiences

Navigating Virtual, Hybrid, and In-

Person Conferences

NCAAT Shares Lessons Learned from

Experience STEAM

[Join the conversation on Twitter](#)
using hashtag [#ATEImpacts](#)

[Have an ATE story to tell?](#)
Email us at impact@ateimpacts.net

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<http://ateimpacts.net>



[f](#) [t](#) [in](#)

ATE Impacts

South Central College

North Mankato, MN

When Annette Parker, president of South Central College, was approached by instructor Doug Laven to start a mechatronics program, she was immediately supportive. Parker and Laven received an ATE grant to develop portable training technology, which enabled them to vastly improve the mechatronics education available at the college. These trainer 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.



ATE IMPACTS

ATE Impacts

Pellissippi State Community College

Knox County, 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 Galloway, received such a thorough education that he passed his certification exam and received full-time employment before he'd even graduated.



ATE IMPACTS

ATE Impacts

Columbus State Community College

Columbus, OH

Car manufacturer Honda projected a shortage of electromechanical technicians in the near future, so they partnered Columbus State Community College in the hopes of developing an "intentional collaborative model" to train students on new manufacturing technologies. Honda's Scot 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.



ATE IMPACTS

ATE Impacts

Asnuntuck Community College

Enfield, CT

Recognizing manufacturing workforce issues in their home state of Connecticut, Karen Wosczyzna-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.



ATE IMPACTS

<http://ateimpacts.net/videos>

ATE Impacts Videos

Quick Links

- Latest ATE **solicitation**:
<http://atecentral.net/rfp>
- Latest ATE **PAPPG**:
<http://atecentral.net/pappg>
- ATE **projects**:
<http://atecentral.net/projects>
- ATE **centers**:
<http://atecentral.net/centers>
- ATE **evaluators**:
<http://atecentral.net/evaluators>



<http://atecentral.net/links>

Questions? Find **ATE**CENTRAL 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

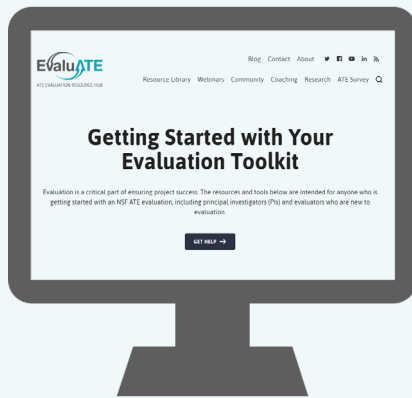
Data Analyst, EvaluATE
erika.Sturgis@wmich.edu



All resources mentioned in this presentation are available from

bit.ly/start-eval

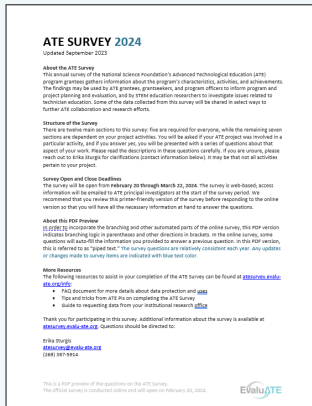




Getting Started with ATE Evaluation



Getting to Know EvaluATE

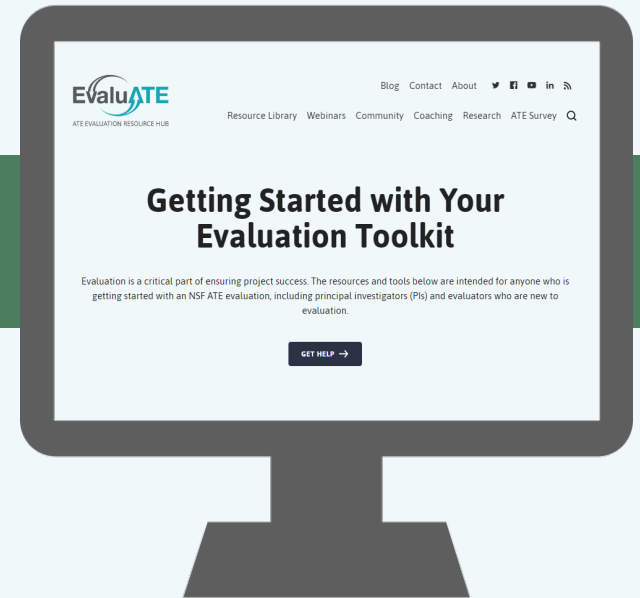


Preparing for the ATE Survey



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

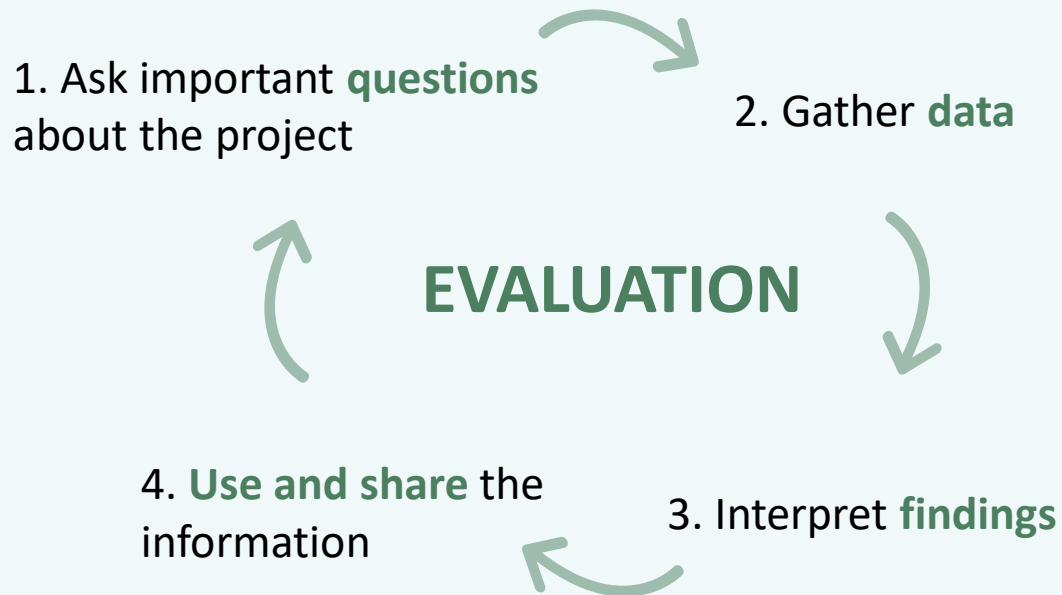


Evidence

Demonstrate project impact

1. Getting Started with ATE Evaluation

What's the point of evaluation?

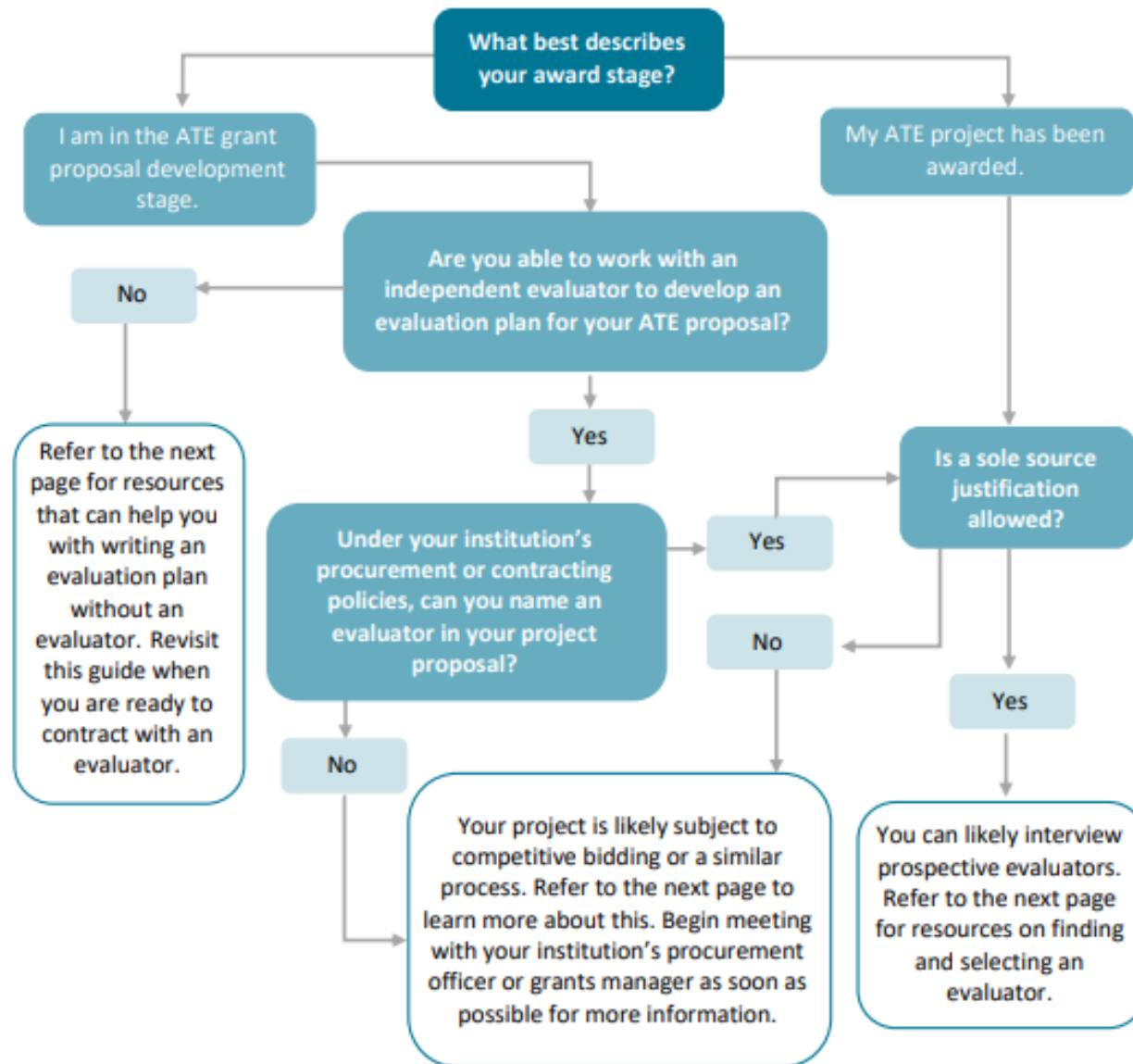


1. Getting Started with ATE Evaluation

Who is your evaluator?



Mapping Out the Evaluator Procurement Process



1. Getting Started with ATE Evaluation

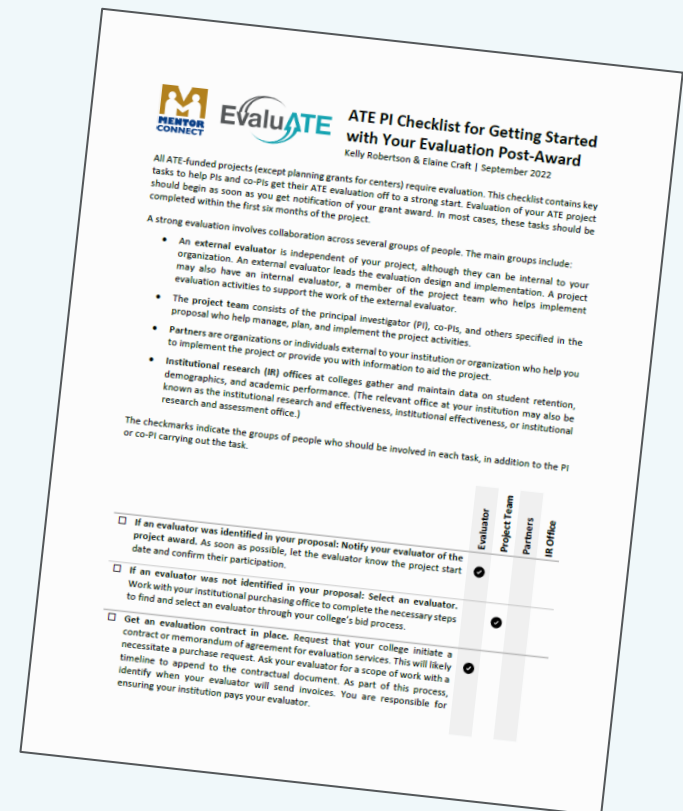
Who is your evaluator?



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



MENTOR CONNECT **EvaluATE** **ATE PI Checklist for Getting Started with Your Evaluation Post-Award**
Kelly Robertson & Elaine Craft | September 2022

All ATE-funded projects (except planning grants for centers) require evaluation. This checklist contains key tasks to help PIs and co-PIs get their ATE evaluation off to a strong start. Evaluation of your ATE project should begin as soon as you get notification of your grant award. In most cases, these tasks should be completed within the first six months of the project.

A strong evaluation involves collaboration across several groups of people. The main groups include:

- An external evaluator is independent of your project, although they can be internal to your organization. An external evaluator leads the evaluation design and implementation. A project may also have an internal evaluator, a member of the project team who helps implement evaluation activities to support the work of the external evaluator.
- The project team consists of the principal investigator (PI), co-PIs, and others specified in the proposal who help manage, plan, and implement the project activities.
- Partners are organizations or individuals external to your institution or organization who help you to implement the project or provide you with information to aid the project.
- Institutional research (IR) offices at colleges gather and maintain data on student retention, demographics, and academic performance. (The relevant office at your institution may also be known as the institutional research and effectiveness, institutional effectiveness, or institutional research and assessment office.)

The checkmarks indicate the groups of people who should be involved in each task, in addition to the PI or co-PI carrying out the task.

	Evaluator	Project Team	Partners	IR Office
<input type="checkbox"/> If an evaluator was identified in your proposal: Notify your evaluator of the project award. As soon as possible, let the evaluator know the project start date and confirm their participation.	●			
<input type="checkbox"/> If an evaluator was not identified in your proposal: Select an evaluator. Work with your institutional purchasing office to complete the necessary steps to find and select an evaluator through your college's bid process.	●			
<input type="checkbox"/> Get an evaluation contract in place. Request that your college initiate a contract or memorandum of agreement for evaluation services. This will likely necessitate a purchase request. Ask your evaluator for a scope of work with a timeline to append to the contractual document. As part of this process, identify when your evaluator will send invoices. You are responsible for ensuring your institution pays your evaluator.	●			





A Guide to Requesting Data from Institutional Research Offices

By Megan Zelinsky and Kelly Robertson | October 2022

Institutional research (IR) offices can support Advancing Technology Education (ATE) principal investigators, project staff, evaluators, and grant specialists in documenting project activities and outcomes. These data are essential for ATE project evaluation questions.¹ This guide answers common questions about requesting data from institutional research offices.

1. What is an institutional research office?

Many (but not all) two- and four-year colleges and universities have an institutional research office on the institution, this office may go by a different name. Institutional research offices provide student demographic information to federal and state agencies, as well as student and program data that may be used in grant proposals and reports, or internal assessments. Institutional research offices can offer support with data collection, implementation, and analysis.²

2. My institution does not have an institutional research office. How can I obtain data?

All institutions are required to report data to the Department of Education in other offices with labels such as institutional research, data systems (MIS), registrar, information technology, or other sources of data include:

- **Instructors and faculty:** You can request data on faculty delivering project services. Information related to project activities and outcomes.
- **Program administrators and academic advisors:** Information they collect may be helpful in understanding project activities and outcomes.

¹ The National Science Foundation requires principal investigators to report on their projects' activities and outcomes, and learn about the types of data you can request from institutional research offices.

² To learn more about what institutional research offices can do, visit <https://www.institutionalresearch.org/>.



Communication Plan Checklist for ATE Principal Investigators and Evaluators

Lyssa W. Becho and Lori A. Wingate | October 2017

Creating a clear communication plan at the beginning of an evaluation can help project personnel and evaluators avoid confusion, misunderstandings, or uncertainty. The communication plan should be an agreement between the project team, the principal investigator and the evaluator, and followed by members of their respective teams. It should be made when developing a clear communication plan.

- ☐ **Designate one primary contact person for the evaluation team.** Clearly identify who should be responsible for providing updates about the evaluation. This person should have the authority to make decisions or a plan for the evaluation, such as the principal investigator or the evaluator.
- ☐ **Set up recurring meetings to discuss the evaluation.** These regular meetings should be held frequently and platform for the project team and the evaluator.

Frequency — At minimum, meetings should be held frequently to maintain momentum and ensure the evaluation is on track.

Platform — Real-time communication through video conferencing will help ensure that all team members are being discussed. Do not rely solely on email or phone calls.

Agenda — Tailor the agenda to the evaluation. In general, the agenda should include project challenges, and explain the project staff should be aware of delays in timelines of action items and decisions.

- ☐ **Agree on a plan for the evaluation.**



ATE PI Checklist for Getting Started with Your Evaluation Post-Award

Kelly Robertson & Elaine Craft | September 2022

All ATE-funded projects (except planning grants for centers) require evaluation. This checklist contains key tasks to help PIs and co-PIs get their ATE evaluation off to a strong start. Evaluation of your ATE project should begin as soon as you get notification of your grant award. In most cases, these tasks should be completed within the first six months of the project.

- A strong evaluation involves collaboration across several groups of people. The main groups include:
 - An external evaluator is independent of your project, although they can be part of your organization. An external evaluator leads the evaluation design and implementation. You may also have an internal evaluator, a member of the project team who leads evaluation activities to support the work of the external evaluator.
 - The project team consists of the principal investigator, the evaluator, and the project staff who help manage, plan, and implement the evaluation.
 - Partners are organizations or individuals who help manage, plan, and implement the evaluation.

1. Getting Started with Your ATE Evaluation How do you launch your evaluation?



2. Getting to Know EvaluATE

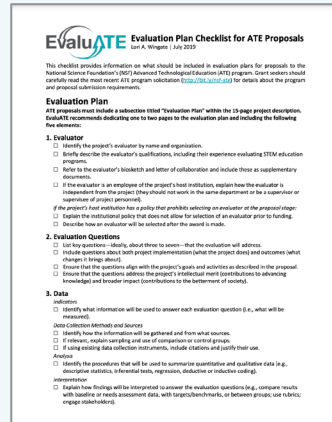
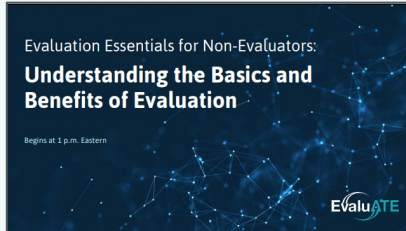
- ✓ What and who is EvaluATE?
- ✓ What does EvaluATE do?





www.evaluate-ate.org





Webinars

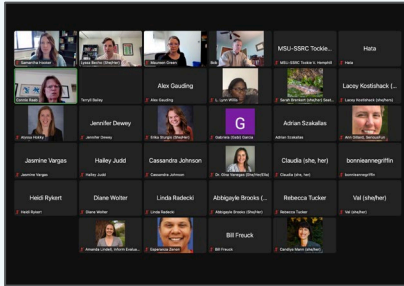
Checklists, templates,
worksheets, and guides



2. Getting to Know EvaluATE

What does EvaluATE do?





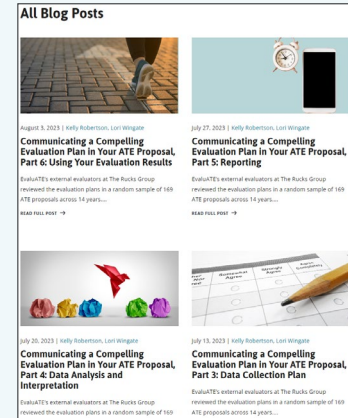
Webchats



Networking
events



Outstanding
ATE Evaluation
Award



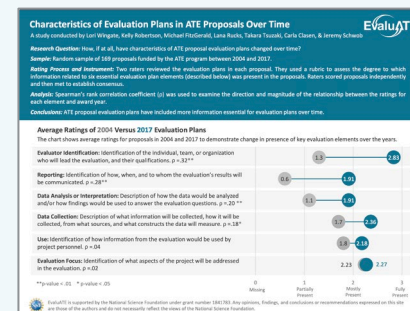
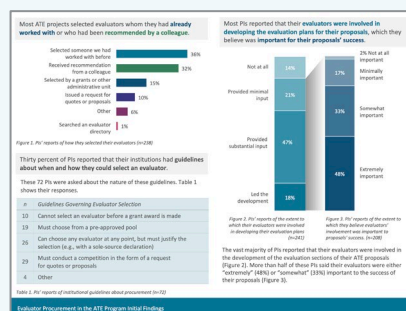
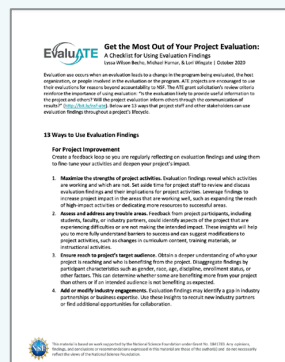
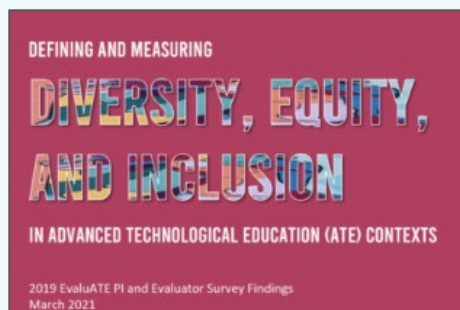
Blogs



2. Getting to Know EvaluATE

What does EvaluATE do?





Equity, diversity, and inclusion in evaluation

Use of ATE evaluations

Barriers in procuring evaluators

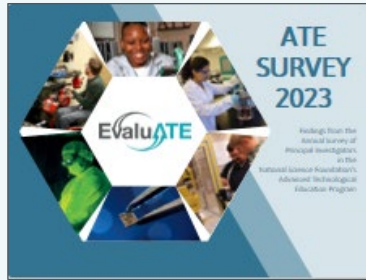
Research on evaluation practices



2. Getting to Know EvaluATE

What does EvaluATE do?





ATE Survey Reports

PI Demographics
ATE Program Investigators self-report information on race, gender, and age in order to assess the diversity of ATE networks.

Year	Assess Date	Discipline	Assess Type	Type of Institution	Region
Principal Investigator Racial & Ethnic Identity (n = 146)					
White					66%
Asian					2%
Black or African American					3%
Multiracial					3%
Hispanic or Latino/Latina					3%
American Indian or Alaskan Native					1%
Total					100%
Principal Investigator Gender Identity (n = 146)					
Male					96%
Female					3%
Total					100%
Principal Investigator Age (n = 146)					
25 - 34 years					14%
35 - 44 years					22%
45 - 54 years					29%
55 - 64 years					26%
65 years or older					9%
Total					100%

Interactive Dashboard



Survey Questions



2. Getting to Know EvaluATE

What does EvaluATE do?



3. Preparing for the ATE Survey

- ✓ What is the ATE Survey?
- ✓ What is your responsibility for the survey?
- ✓ How can you prepare for the survey?

ATE Survey FAQs

Updated September 2023

The following information is provided to assist you as you complete the ATE Survey. If you need additional information, please contact Erika Sturgis at atestsurvey@evalu-ate.org or (269) 387-5914.

We strongly suggest taking the following actions:

- Preview the survey questions at atestsurvey.evalu-ate.org/
- Share these FAQs and the survey questions with your colleagues
- Identify all potential data sources for your project
 - Review our guide for working with data sources at evalu-ate.org/guide/working-with-data-sources/
- Learn more about the survey and the ATE Survey at atestsurvey.evalu-ate.org/info/faq/

GENERAL QUESTIONS

1. What is this survey about?
2. How/why was I selected for the survey?
3. Who will see my survey responses?
4. Do I have to answer all the questions?
5. Can you just use the information I provide?
6. You ask questions about things we

QUESTIONS ABOUT COMPLETING THE SURVEY

7. Can someone other than the PI complete the survey?
8. How do I access the survey?
9. Will the survey system save my responses?
10. When can/should I submit the survey?

QUESTIONS ABOUT CHANGES TO THE SURVEY

11. What's different about the survey this year?

ATE SURVEY 2024

Updated September 2023

About the ATE Survey
This annual survey of the National Science Foundation's Advanced Technological Education (ATE) program grantees gathers information about the program's characteristics, activities, and achievements. The findings may be used by ATE grantees, grantseekers, and program officers to inform program and project planning and evaluation, and by STEM education researchers to investigate issues related to technician education. Some of the data collected from this survey will be shared in select ways to further ATE collaboration and research efforts.

Structure of the Survey

There are twelve main sections to this survey: five are required for everyone, while the remaining seven sections are dependent on your project activities. You will be asked if your ATE project was involved in a particular activity, and if you answer yes, you will be presented with a series of questions about that aspect of your work. Please read the descriptions in these questions carefully; if you are unsure, please reach out to Erika Sturgis for clarifications (contact information below). It may be that not all activities pertain to your project.

Survey Open and Close Deadlines
The survey will be open from February 20 through March 22, 2024. The survey is web-based; access information will be emailed to ATE principal investigators at the start of the survey period. We recommend that you review this printer-friendly version of the survey before responding to the online version so that you will have all the necessary information at hand to answer the questions.

About this PDF Preview

In print, to incorporate the branching and other automated parts of the online survey, this PDF version indicates branching logic in parentheses and other directions in brackets. In the online survey, some questions will auto-fill the information you provided to answer a previous question. In this PDF version, this is referred to as "piped text." The survey questions are relatively consistent each year. Any updates or changes made to survey items are indicated with blue text color.

More Resources

- The following resources to assist in your completion of the ATE Survey can be found at atestsurvey.evalu-ate.org/:
- FAQ document for more details about data protection and uses
 - Tips and tricks from ATE PIs on completing the ATE Survey
 - Guide to requesting data from your institutional research office

Thank you for participating in this survey. Additional information about the survey is available at atestsurvey@evalu-ate.org. Questions should be directed to:

Erika Sturgis
atestsurvey@evalu-ate.org
(269) 387-5914

This is a PDF preview of the questions on the ATE Survey.
The official survey is conducted online and will open on February 20, 2024.

EvaluATE



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

EvalUATE A Guide to Reporting in the ATE Program
Lyssa Wilson Becho and Erika Sturgis | March 2023

Projects funded by the National Science Foundation's (NSF) Advanced Technological Education (ATE) program have several reporting requirements. This guide differentiates these various reports and provides tips on preparing for each.

	Project Annual Report or Final Report to NSF	ATE Survey	Evaluation Report	Project Outcomes Report
Purpose	Describe progress towards your project's goals and outcomes with NSF	Report on project activities and achievements in a form that allows for program-wide aggregation	Answer project-specific evaluation questions to assess and document your project's process and outcomes	Public documentation of your project's activities and impact
Distinguishing Feature	Reports on the most recently completed budget year and only available to NSF program officers	Provide an annual profile of the ATE program as a whole	Demonstrates a project's effectiveness and outcomes written by an independent observer and may provide the project team with recommendations for continuous improvement	Overview of your project's impact across the entire grant period and is publicly available
Audience	The project's NSF program officer	ATE community, NSF, Congress, and others involved in career and technical education	Project staff, participants, and NSF program officer	The general public
Person Responsible	Principal Investigator (PI) or their designee	PI, possibly with assistance from project team, evaluator, and/or institutional research staff	External evaluator	PI or their designee
Submission Mechanism	Research.gov	Online survey link emailed directly to PI from EvalUATE	Agreed upon by project and evaluation teams	Research.gov
Timing	Due annually within the 90-day period before the project	Due annually. The ATE Survey opens in February each year.	The timing of evaluation reports is determined by the PI and evaluator based on the project's information needs.	Due no later than 120 days following the expiration of the award.



3. Preparing for the ATE Survey

What is your responsibility for the survey?

More than **90%** of ATE grantees
complete the survey
each year!



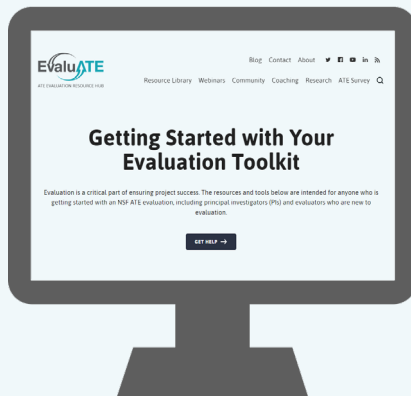
3. Preparing for the ATE Survey

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



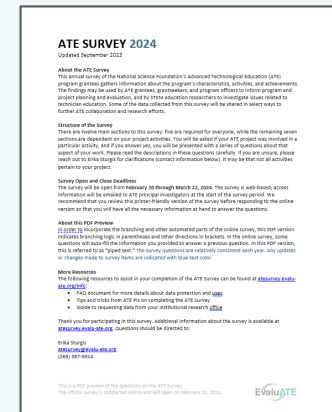
3 Main Takeaways



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





Mentor-Connect



Elaine Craft
PI



Emery DeWitt
Co-PI



Rick Roberts
Co-PI



Pamela Silvers
Co-PI

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?



NOW

- 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

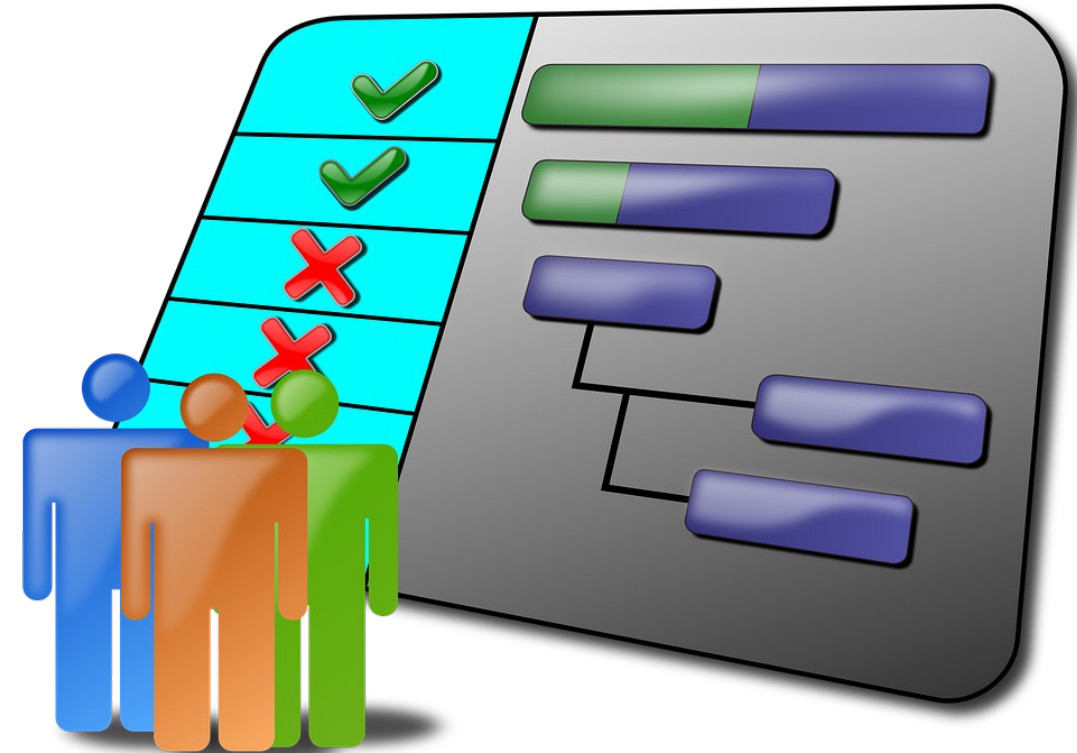
Communications

- External
- Internal
- NSF



Work Plan

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





DATA



KNOWLEDGE



ACTION

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!

LATER

- ATE Annual Survey
- NSF Reporting
- Dissemination





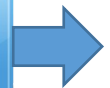
NSF Grant Management Checklist: Getting Started

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

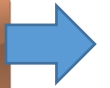
Plus, more from the Mentor-Connect Resource Library:

- No-cost extensions
- Budget reallocations
- Supplemental funding

Connect with Mentor-Connect



www.Mentor-Connect.org



843.676.8541



mentor-connect@fdtc.edu



[ATEMentorConnect](https://www.facebook.com/ATEMentorConnect)



[@Mentor_Connect](https://twitter.com/@Mentor_Connect)



[LinkedIn.com/MentorConnect](https://www.linkedin.com/company/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