NSF ATE Program Funding Opportunities & Mentor-Connect Orientation Webinar
1:00 p.m. – 2:30 p.m. ET
Thursday, September 12, 2019
Guest Speaker

Ann Beheler
Executive Director
Emerging Technology Grants
Collin County Community College
Part I: Introduction to the NSF ATE Program

- NSF – the agency
- Opportunities for NSF ATE Grant Funding
- Small Grants for Institutions New to ATE
- Next step, “moving-up” ATE project options

Part II: Mentor-Connect Opportunity

- Overview
- Mentoring Options and Structure
- Technical Assistance and Resources
- Tips for Success
Welcome to NSF

NSF ATE Program
Division of Undergraduate Education
National Science Foundation
Division of
- Graduate Education (DGE)
- Research on Learning in Formal and Informal Settings (DRL)
- Human Resource Development (HRD)
- Undergraduate Education (DUE)
2019 submission deadline: October 3
Changes with this or the previous ATE solicitation:
• Change: funding duration and size of awards for the Centers track. For Center areas see www.atecenters.org and solicitation.
• Change: maximum budget for projects. Budgets range from $300,000 to $600,000 total maximum budget.
• Addition: project focus areas in Adaptation and Implementation (A&I) and Instrumentation Acquisition
• Change: eligibility requirements for Small, New to ATE. Allows institutions that have not received an ATE award in the past 7 years to apply (based on original funding date)
Also,
• Developers are encouraged to use an open learning approach for any new learning materials and computer software developed.
• Proposals submitted need to be in compliance with both the ATE solicitation and the NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 19-1)
The education of highly qualified science and engineering technicians for advanced-technology fields that drive the nation’s economy.

- **Community colleges** have leadership roles on all projects.
- Grades 7-12, 2yr- and 4-yr institutions can be supported. (Pathways)
- **Partnerships** with Industry and Economic Development Entities – **Hiring Needs**
ATE Program continued

Four Program Tracks

**Moving Up**

- ATE Projects
  - Up to $600k, up to 3 yrs
  - *except* Adapt & Implement
  - $300-400K Instrumentation Acquisition $400-500K

- SMALL GRANTS
  - For Institutions New to ATE
  - Up to $300K, 3-yr.

- ATE Centers
  - Two Types
    - Center
      - Up to $7.5M 5 yrs
    - Resource Centers
      - Up to $1.65M 3 yrs

- Targeted Research in Technician Education
  - From $150k, up to 2 yrs to $800k, up to 3 yrs

**Deadline (All Tracks):**
3 October 2019
Projects - up to $200,000 /yr. ($600,000 max.), 3 yrs.

• Program Development, Implementation and Improvement;
• Professional Development for Educators;
• Curriculum and Educational Materials Development;
• Teacher Preparation;
• Small Grants for Institutions New to the ATE Program ($300K, 3-yrs.);
• Adaptation and Implementation (A&I); $300-400K, 2-3 yrs.);
• Instrumentation with Curriculum Updates; $400-500K, 2-3 yrs.)
• ATE-Coordination Networks (up to $600,000, 3 yr.)
Rate is influenced by
$ available
# proposals received
Type of proposal (funding track)
Quality of proposals
Read the solicitation!
Choose right program track
Start early
Faculty-driven concept & work plan
Get help – avoid errors
  Program Officers
  Mentor-Connect
  Project/Center PIs

Be alert to guidelines (PAPPG, NSF 19-1)
What is your current role at your institution?

A. Faculty
B. Administrator
C. Grant writer
D. None of the above
• Too few community colleges benefit from NSF funding via 2-year-college-focused ATE Program
• New-to-ATE often struggle to “move up”
• Too many drop-out if proposal is declined
• Complexity of “grantsmanship”
• Need for highly skilled technicians
Mentor-Connect Assistance

Mentoring & Technical Assistance

Workshops

Success Data

Application/Selection

Resources and Just-in-time help

Leadership Development
2018-19 Mentors
● Assist team during workshops
● ~36 hrs. customized mentoring/consulting
● Proposal guidance
  Strengthen proposal topics
  Refine ideas & strategies
  Provide links to ATE resources/people
  Help in addressing NSF & ATE requirements
College teams comprised of at least 2 STEM faculty and 1-2 additional STEM faculty, administrators or grant writers. Teams selected each year in October.
Cohort Benefits

- A three-day winter grant-writing workshop
- An ATE-experienced mentor assigned to each team
- Technical assistance webinars (3 or more)
- One-day summer workshop & HI-TEC Conference
- Other resources and “help desk” support
Travel support

- Winter Workshop up to $1200 each for the future PI and a Co-PI
- Summer Workshop up to $1200 each for the PI and either a Co-PI or a grant writer (Summer Workshop includes $500 HI-TEC registration fee)
Winter Workshop up to two:

- Grant Writers
- Sponsored Research Officers (SROs)
- Other supportive administrators

*Costs: travel, hotel, $475 registration*
Winter Workshop benefits grant writers, SROs and other administrators

- Separate workshop tracks
- Mentor Support
- Mentor-Connect resources
Four-person college teams participating in Mentor-Connect get the best results

Additional travel support for grant writers or administrators may be available
✓ 2-year technical and community colleges
  ...No ATE grant funding in the past 7 years
✓ STEM faculty
  ...Who prepare technicians for the U.S. workforce
✓ Limit: one team application per eligible college

Note: Don’t submit proposal to ATE and application to Mentor-Connect in same October
Especially encouraged to participate:

Rural colleges
Diverse STEM Faculty (underrepresented)
Female
Hispanic/Latino
African-American
Alaskan Native/Native American
Mentor-Connect Assistance

Mentoring & Technical Assistance

Workshops

Success Data

Application/Selection

Resources and Just-in-time help

Leadership Development
January 29-31, 2020, New Orleans, Louisiana
Team work with assigned mentor

- Grant-writing skills & tips for being competitive in NSF ATE program
- Mock panel review of actual grant proposals
- Leadership skills development
- Special sessions for grant writers & administrators
July 29-31, 2020, at High Impact Technology Exchange Conference (HI-TEC), Portland, Oregon

- Team work time with mentor
- Grant-writing technical assistance
- Advice from and networking with mentees who have been successful
Previous workshops.....
NEW ORLEANS
WINTER WORKSHOP 2019
Mentoring & Technical Assistance

Workshops

Success Data

Application/Selection

Resources and Just-in-time help

Leadership Development
143 Colleges Teams $\rightarrow$ 300 Faculty $\rightarrow$ 170 Grant Writers/Administrators
• **NSF ATE proposal submissions**: 86% of Mentor-Connect Colleges submitted proposals

• **Cohort 6 outcomes**: 17 submissions/15 awards (88% funding success)

• **NSF awards to Mentor-Connect Mentees**: 71/97 = 73% success for small grants (71/104 = 68% success rate overall)

• **Mentor-Connect applicants accepted into a cohort**: 65%

• **100% of colleges who re-applied for Mentor-Connect when not initially selected have been selected to date (not guaranteed)**

* Cohort 7 (22 teams accepted)
Mentoring & Technical Assistance

Workshops

Success Data

Application/Selection

Resources and Just-in-time help

Leadership Development
An idea for enhancing technician education

2 STEM faculty who
  * Participate fully
  * Develop the project plan
  * Lead as PI and Co-PI
  * Have experience/qualifications

Industry need for completers of the targeted technician education program(s)

Support of college/administrators for the faculty team

College commitment to submit ATE grant proposal
Access application package:

www.Mentor-Connect.org

“Get a Mentor”

**Deadline October 11, 2019**

Application Components:

Electronic Application &
College Affidavit
Each applicant is offered Mentor-Connect help

All teams will be notified on Friday, November 8, 2019

- 20 colleges will be selected for Mentor-Connect Cohort 8
- Those not selected receive:
  - Opportunity for one-on-one consultation
  - Invitations to technical assistance webinars
  - Access to online resources
- Application is complete
- College is “small grant” eligible
- Good idea with clear technician education focus
STEM faculty team, highly interested*

Geographic diversity of institution

Demographic diversity of faculty team members/Students

*Note: faculty are not required to have a doctorate degree.
Initial Expectations...

- Read acceptance or decline letter thoroughly
- Register and prepare for winter workshop
  ... if declined, sign up for consultation
- Early contact with assigned mentor
- Ask questions
Mentoring & Technical Assistance

Workshops

Success Data

Application/Selection

Resources and Just-in-time help

Leadership Development
• 200+ self-help resource library available online including templates, samples, checklists, guidelines, tutorials and more related to grant proposals

• Live/Recorded Webinars

• Frequently Asked Questions

• Glossary of terms

• Help Desk
Mentor-Connect

Website

Workshops

Webinars/Tutorials

EZ Guide for Using the Mentor-Connect Collection

1. Go to http://library.mentor-connect.org/
   Note: Use Google Chrome Internet browser to access resource collection.
Mentoring & Technical Assistance

Workshops

Success Data

Application/Selection

Resources and Just-in-time help

Leadership Development
Results from problem-based learning as faculty develop projects, prepare proposals, and implement projects

Occurs throughout Mentor-Connect participation and continues

Experiences expand faculty beyond the classroom and normal faculty roles at a college

Opportunity to become a Mentor
**Don’t:** Submit New-to-ATE proposal & apply to Mentor-Connect in same year

**Do:**

- Apply for Mentor-Connect
- New-to-ATE Grant Award
  - Apply for Moving-Up Mentoring
  - ATE Grant Award
- Proposal Declined
- Proposal Declined

**OR...**

- Submit New-to ATE Proposal
- New-to-ATE Grant Award
- Proposal Declined
- Proposal Declined

**APPLY FOR ATE FUNDING!**
Moving Up & Second-Chance Mentoring

Moving Up in ATE Funding

- 4-6 college teams selected each year (spring)
- Successful completion of Small, New-to-ATE project
- Mentor to help guide and review proposal development

Second Chance for ATE Funding

- 2-4 college teams selected each year (spring)
- First or second ATE project proposal declined
- Same grant concept & some of the same PIs/Co-PIs
- Mentor to help guide rework of declined proposal

Also:
Technical Assistance & Other Mentor-Connect Resources!
Mentor Fellows Initiative

Developing new mentors who assist prospective grantees prepare competitive ATE Grant proposals

- Mentor Fellows grow professionally while helping others!
- Have you implemented two or more successful ATE grants?
- Would you like to give back to the ATE community?

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www.Mentor-Connect.org

Mentor-Connect@fdtc.edu

ATEMentorConnect

@Mentor_Connect
Leadership Development and Outreach for ATE

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