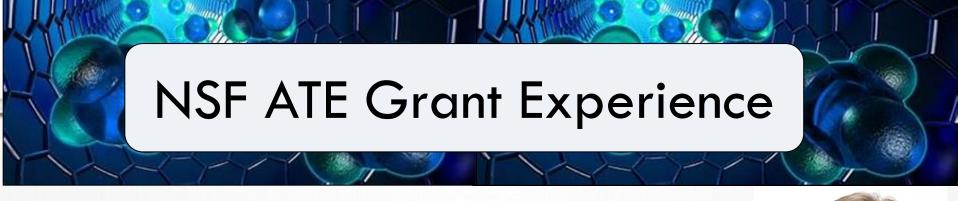






National Science Foundation ATE Grant Funding and Mentoring Services

MNTeSIG LIVE! July 25, 2022 Greg Kepner & Mel Cossette



Greg Kepner – 15 years

Principal Investigator Midwest Photonics Education Center Project **Co-Principal Investigator Micro Nano Technology Education Center** National Center for Optics and Photonics Education O **Project Evaluator Mentor-Connect Mentor Fellow MentorLinks Mentor**



Mel Cossette – 22 years

Principal Investigator Online Institutional Resource for Material Science Technology Education Co-Principal Investigator Micro Nano Technology Education Center And 2 other ATE Projects Project Evaluator Mentor-Connect Master Mentor



ATE Collaboration

- Micro Nano Technology Education Center
 - NSF DUE #2000281
 - Pasadena City College, Pasadena, CA
- Mentor-Connect
 - NSF DUE #1840856
 - Florence-Darlington Technical College, Florence, SC
- ATE Collaborative Outreach and Engagement Project
 - NSF DUE #1723419
 - Hillsborough Community College, Tampa, FL

Agenda

Part 1: Introduction to the NSF ATE Program

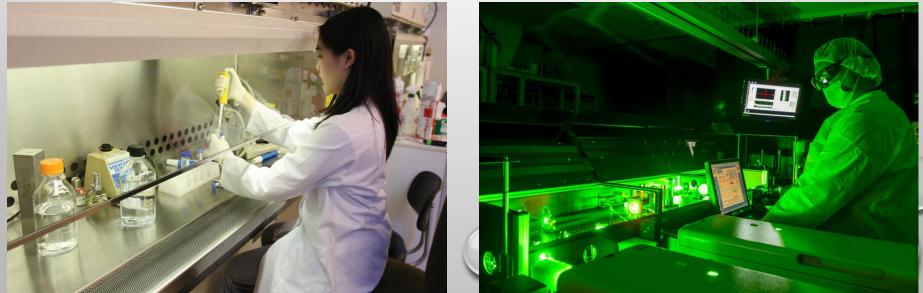
- NSF ATE Grant Funding
- Small Projects for Institutions New to ATE
- ATE Solicitation NSF 21-598

Part 2: Mentoring Opportunities and Resources

- Mentoring and Technical Assistance
- Application/Selection Criteria & Deadlines
- Success Rate



The <u>education</u> of highly qualified science and engineering technicians for the advanced technology fields that drive our nation's economy.



Why NSF ATE?



- Faculty development
- More students/graduates
- Greater diversity
- Industry partnerships
- New equipment

NSF 21-598

Advanced Technological Education (ATE)

PROGRAM SOLICITATION NSF 21-598

REPLACES DOCUMENT(S): NSF 18-571

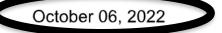


National Science Foundation

Directorate for Education and Human Resources Division of Undergraduate Education

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):

October 14, 2021



October 05, 2023

NSF ATE Program

- Institutions of Higher Education that award certificates and 2-year technology degrees
- 2-year college faculty should have a leadership role on all projects
- 2-yr, 4-yr institutions and high schools can be supported (Education Pathways)
- Partnerships with Industry and Workforce or Economic Development Entities encouraged

ATE Technology Areas

- Advanced Manufacturing Technologies
- Biotechnology
- Agricultural Technologies
- Energy and Environmental Technologies
- Engineering Technologies
- Information Technologies
- Micro and Nano Technologies
- Security Technologies
- Geospatial Technologies
- Autonomous & Emerging Technologies

ATE Program Tracks

- Small Projects for Institutions New to ATE
- Projects
- Consortia for Innovations in Technician Education
- Applied Research on Technician Education
- Centers and Resource Centers

Grant Activities

Projects or Small Projects for New to ATE

- Program Development and Improvement
- Professional Development for Educators
- Curriculum Development
- Educational Materials Development
- CTE and STEM Teacher Preparation
- Undergraduate Research Experiences
- Internships, Apprenticeships, Work Experiences
- Instrumentation Acquisition

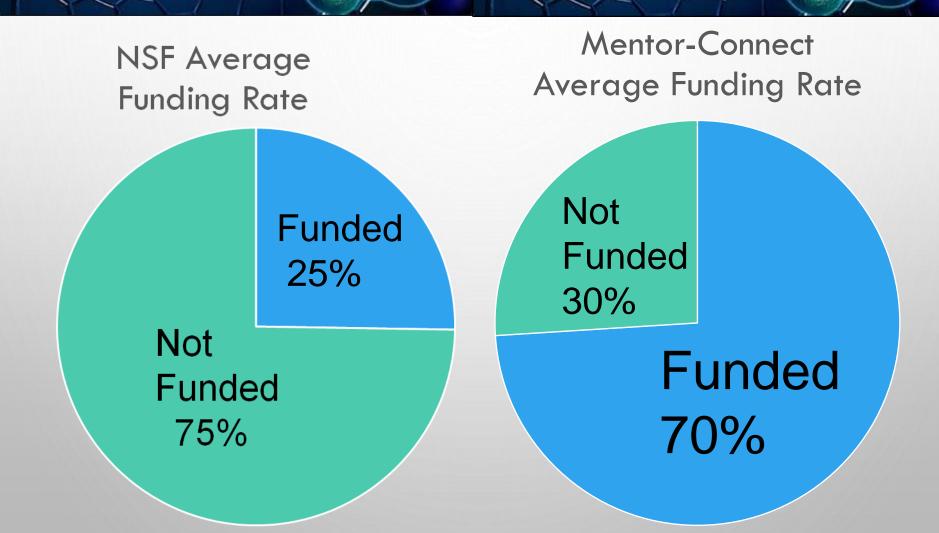
Mentoring

- Mentor-Connect
 - Small Projects for Institutions New to ATE
 - Second Chance submitted and not funded
 - Moving Up higher level of funding
 - Co-mentoring available for options above
- Micro Nano Technology Education Center
 - Project proposal mentoring
 - Co-mentoring with Mentor-Connect
 - Emphasis in Micro Nano Technology

Mentor-Connect Resources

- Small Projects for Institutions New to ATE
- Individual Mentoring
- Technical Assistance
- Webinars & Tutorials
- Workshops
- Help Desk Just-in-time answers
- Online Resource Library
- NSF Funding Process Guidance & Start-up Help
- Leadership Development

Why Mentor-Connect?





- No ATE grant funding in the past 7 years
- Branch campus with an Academic Officer
- STEM or CTE 2-year college faculty
- Technician Education
- One team application per eligible college

How to Apply

- Go to <u>www.Mentor-Connect.org</u>
 - Select: "Get a Mentor"
 - Complete application package
 - Available on July 1
 - Deadline in 2nd week of October
 - Electronic application and college affidavit
 - 150 word personal statement of interest
 - 500 word proposal description



- Mentoring for Micro/Nano related proposals
 - Micro/Nano Technology
 - Materials Science Technology
 - Photonics Technology
 - Manufacturing Technology
 - Engineering Technology
 - Biotechnology



- Review Micro/Nano related proposals
 - Provide feedback and recommendations
 - Subject matter expertise
- Guidance on:
 - NSF ATE Solicitation 21-598
 - PAPPG
 - NSF New Awardee Packet
 - NSF onboarding process

MNT-EC Mentoring

- Apply at micronanoeducation.org
 - Select "Educators"
 - Select "Mentoring"
 - Select "New to ATE"

or

- Select "Micro/Nano Related Proposals"
- Select "Project Proposal Application"
- Application opens on January 1

NSF ATE Resources

MNT-EC www.micronanoeducation.org

Mentor-Connect <u>www.mentor-connect.org</u> NSF ATE <u>www.nsf.gov/ATE</u>

Questions?

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Mel Cossette – mel@micronanoeducation.org

Elaine Craft - Elaine.Craft@fdtc.edu

Elaine is the Principal Investigator for Mentor-Connect.

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