Getting Started Workshop

Celeste Carter
Program Director
Division of Undergraduate Education

David Campbell
Program Director
Division of Research on Learning in Formal and Informal Settings

AACC/NSF National ATE Principal Investigators Conference
October 23, 2017
Agenda for this afternoon

- General information (NSF); alternating with Mentoring team (experienced NSF-supported PIs)
- Office of Budget, Finance, and Award Management
- Office of the Inspector General
- Evaluation Team (Evalu-ATE)
- ATE Central
In 1992, the Scientific and Advanced Technology Act (SATA) was signed into law by Congress. This act was to establish "a national advanced technician training program, utilizing the resources of the Nation's two-year associate degree-granting colleges to expand the pool of skilled technicians in strategic advanced technology fields, to increase the productivity of the Nation's industries, and to improve the competitiveness of the United States in international trade, and for other purposes." This act gave rise to the National Science Foundation's Advanced Technological Education (ATE) program.
The ATE program promotes improvement in the education of science and engineering technicians at the undergraduate and secondary school level and the educators who prepare them, focusing on technicians for high-technology fields that drive the nation’s economy.

ATE is in its 25th year of funding community colleges, having started with the Science and Advanced Technology Act of 1992 (SATA).

- We will be revising the solicitation for proposals submitted in FY19 (October 2018)

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5464
Advanced Technological Education

FY 2016
- About 211 Formal Proposals
  - Oct 8, 2015

FY 2017
- About 167 Formal Proposals
  - Oct. 6, 2016

FY 2018
- About 233 Formal Proposals
  - Oct. 5, 2017
Advanced Technological Education Program

Projects which focus on:

- Program Improvement;
- Professional Development for Educators;
- Curriculum and Educational Materials Development;
- Teacher Preparation; or
- Small Grants for Institutions New to the ATE Program.

- Centers and Resource Centers
  - [http://www.ATECenters.org](http://www.ATECenters.org)

- Targeted Research on Technician Education
Number of Awards per State in ATE’s 25 Year History

Total Number of Awards (1431)

- WA 61
- OR 36
- NV 6
- ID 4
- MT 7
- WY 3
- ND 6
- MN 34
- IA 34
- IL 48
- WI 39
- IN 13
- KY 4
- MO 13
- OK 10
- AR 7
- LA 6
- TX 77
- NC 77
- SC 33
- GA 23
- FL 70
- AL 23
- MS 13
- WV 23
- VA 39
- PA 36
- NY 77
- OH 66
- MI 29
- MD 45
- DE 5
- CT 24
- NJ 24
- RI 1
- VT 3
- NH 9
- DC 32
Accountability

- You need to report and document the impact and effectiveness of your project to NSF
- NSF takes your information to document the impact and effectiveness of the ATE program to Congress
Evaluation and Reporting

Annual reports
- Due 90 days before the anniversary of your award
- Standard vs. continuing awards
- Your CGI depends on approval of annual report
- Delinquent annual reports in other divisions of NSF will affect timely funding of your ATE award!

Final reports
- Due no later than 120 days after the end date of your award
- Overdue final reports will affect timely funding of awards elsewhere in the foundation
- The final report: last annual report, or something more comprehensive?
Evaluation and Reporting

Research.gov has a report template

You can attach .pdf files
- Charts, news articles, photographs; external evaluation report; etc.
- Don’t go berserk! If you must attach 200+ pages worth of material, send an email to the PI indicating the most important 20 pages or so to read!

(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!!!!
Evaluation and Reporting

Annual reports

Accomplishments

- What are the major goals of the project?
- What was accomplished under these goals (you must provide information for at least one of the 4 categories below):
  - Major activities
  - Specific Objectives
  - Significant results
  - Key outcomes or other achievements
- What opportunities for training and professional development has the project provided?
- How have the results been disseminated to communities of interest?
- What do you plan to do during the next reporting period to accomplish these goals?
Evaluation and Reporting

Annual reports

Products
- Journals
- Websites

Participants
- What individuals have worked on the project?
- What other organizations have been involved as partners?
- Have other collaborators or contacts been involved?
Evaluation and Reporting

Annual reports

Impacts

- What is the impact on the development of the principal discipline(s) of the project?
- What is the impact on other disciplines?
- What is the impact on the development of human resources?
- What is the impact on physical resources that form infrastructure?
- What is the impact on institutional resources that form infrastructure?
- What is the impact on information resources that form infrastructure?
- What is the impact on technology transfer?
- What is the impact on society beyond science and technology?
Evaluation and Reporting

Annual reports

Changes

- Changes in approach and reasons for change
- Actual or anticipated problems or delays and actions or plans to resolve them
- Changes that have a significant impact on expenditures
- Significant changes in use or care of human subjects
- Significant changes in use or care of vertebrate animals
- Significant changes in use or care of biohazards
Special Requirements

Respond to the items in this section if they are applicable. Mention any requests submitted to FastLane Notifications and Requests. For example, you may have submitted a request for significant modifications to the scope of work or reallocation of funds originally budgeted for participant support. You can see the web site for a complete list of notifications and requests. (NOTE: NOTIFICATIONS AND REQUESTS ARE A SEPARATE FastLane/Research.gov action. Merely including this information in your annual report is not sufficient).
Attachments

You must put relevant information into the appropriate text boxes and ONLY attach PDF files as backup documentation. Among the things that are appropriate to send as PDF attachments are:

- Evaluation information such as reports from your Advisory Committee and evaluators. These are often confidential or preliminary and not appropriate to be broadly shared.
- Charts, graphs, data tables, pictures, news articles, and similar material that cannot be represented in text-only format.
- Documents that are too long to be included in the text boxes, such as modules or short publications.
Interim Annual Reports

Returned Annual Reports
Evaluation and Reporting

Project Outcomes Report for the General Public

- Within 120 days following expiration of the grant, a project outcomes report for the general public must be submitted electronically via Research.gov. This report serves as a brief summary, prepared specifically for the public, of the nature and outcomes of the project. This report will be posted on the NSF website exactly as it is submitted and will be accompanied by the following disclaimer:

- “This Project Outcomes Report for the General Public is displayed verbatim as submitted by the Principal Investigator (PI) for this award. Any opinions, findings, and conclusions or recommendations expressed in this Report are those of the PI and do not necessarily reflect the views of the National Science Foundation; NSF has not approved or endorsed its content.”
National Visiting Committees or Advisory Boards

National Visiting Committee

- 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

Advisory boards

- Often a good idea for a project to have one
- If you have one, USE IT!!!
Site Visits

- A Program Officer will try to visit your project at least once

- Reverse Site Visits

- Needs to be more than a dog and pony show: What works, what isn’t working, where you could use help, where you could help others

- Site visit reports become part of the award’s official record
Mentoring in the ATE Program

Getting Started Pre-Conference Workshop
ATE PI Conference
Wednesday, October 23, 2017

Elaine Craft, PI
Ellen Hause, Co-PI
Dennis Faber, Co-PI
Mentor-Connect Mission

- Knowledge Transfer
- Leadership Development
- Booth 004 — all Showcase Sessions
“Mentors are guides. We trust them because they have been there before. They embody our hopes, cast light on the way ahead, interpret arcane signs, warn us of lurking dangers, and point out unexpected delights along the way.”

Laurent Daloz
Technical Assistance
Resources
Help Desk
Mentors
Leadership Development
So Much to Do!

When to do What?
# NSF Grant Management Checklist: Getting Started

<table>
<thead>
<tr>
<th></th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>0-6 Months</td>
<td>6-12 Months</td>
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<tr>
<td><strong>Budget Management</strong></td>
<td>✔️ ✔️ ✔️ ✔️</td>
<td>✔️ ✔️</td>
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<td><strong>Communication Needs</strong></td>
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<td>✔️ ✔️</td>
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<td><strong>Grant Operations</strong></td>
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<td>✔️ ✔️</td>
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<td><strong>Evaluation</strong></td>
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<td>✔️ ✔️</td>
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<td><strong>Dissemination</strong></td>
<td>✔️</td>
<td>✔️</td>
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<td><strong>Advisory Board(s)</strong></td>
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<td>✔️ ✔️</td>
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<td><strong>Report Preparation</strong></td>
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<td>✔️</td>
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<tr>
<td><strong>Mentoring Assistance</strong></td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

✔️ = Emphasis/Time/Attention
Mentoring Tips for Getting Started

- Communicating with your Program Officer
  - Project # and Topic
  - No Graphics
  - Attach Word or pdf files
  - No Hard Copies
  - Photos –with written permission
Mentoring Tips for Getting Started

- NSF Research Focus
- Evaluation
- Project Start Date

April 28
Mentoring Tips for Getting Started

- Data
- Golden Rule(s)
Learn & Benefit from the Work of Others

- Faculty Development
  www.TeachingTechnicians.org

- Student Recruitment
  Build-Your-Own Customized Recruitment Video Tool

- Scholarship
  Compendium of Research on Technician Education
SCATE National Center
Florence-Darlington Technical College, SC

Dennis Faber
dmfaber@mediacombb.net

Elaine Craft
elaine.craft@fdtc.edu

SCATE@fdtc.edu
Mentor-Connect@fdtc.edu

843-676-8547

www.TeachingTechnicians.org
www.SCATE.org
www.Mentor-Connect.org
Leadership Development and Outreach for ATE

NSF DUE # 1204463 & # 1501183

Elaine Craft, Principal Investigator

Dennis Faber, Co-PI  Ellen Hause, Co-PI

SC ATE Center of Excellence
Florence-Darlington Technical College
Florence, SC 29501-0548
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.
Working with NSF ATE Program Officers

Communicate with Program Officers and Keep them informed of Progress

- Not just when things are going wrong!
- Tell us about the good stuff, too.
- Newspaper clippings, television, radio, campus news
- NSF Highlights – might be featured in NSF’s budget request to Congress

- 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
- Emails are usually the best way
- Please put your award number in the subject line of the email
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
Award Abstract #1104238
Regional Center For Nuclear Energy Education and Training (RC-NET)

NSF Org: DUE Division of Undergraduate Education

Initial Amendment Date: August 2, 2011
Latest Amendment Date: August 7, 2013
Award Number: 1104238
Award Instrument: Continuing grant
Program Manager: David B. Campbell
DUE Division of Undergraduate Education
EHR Directorate for Education & Human Resources

Start Date: August 1, 2011
Expires: July 31, 2016 (Estimated)
Awarded Amount to Date: $3,067,524.00

Investigator(s):
Kevin Cooper kcooper@ircsc.edu
(Principal Investigator)
Gilbert Brown (Co-Principal Investigator)
Robert Rhodes (Co-Principal Investigator)
Thomas Chandler (Co-Principal Investigator)
Jose Melendez (Co-Principal Investigator)
John Barlow (Former Co-Principal Investigator)

Sponsor:
Indian River Community College
3200 Virginia Avenue
Fort Pierce, FL 34981-5541
(772)462-4703

NSF Program(s): ADVANCED TECH EDUCATION PROG
How do I get my money?


Look for “Steps to Draw Down NSF Funding”
Notifications and Requests

Examples:
Change in scope
Budget changes
Time lines
Principal Investigator changes
Participant Support
No-cost extensions

It’s best to discuss these with a Program Officer before you make official requests in Fastlane
Notifications and Requests

NSF Funding & Research Community
Notifications and Requests

FastLane is an interactive real-time system used to conduct NSF business over the Internet. FastLane is for official NSF use only. More About FastLane.

Advisories

10/20/08 - ATTENTION Partnership for Innovation (PFI) APPLICANTS submitting Letters of Intent (LOIs) to PFI (NSF-08-083): Special LOI Submission Instructions
10/10/08 - Please Note: Information for Preparers of Project Reports to the Division of Undergraduate Education
10/01/08 - Important Information about the NSF Proposal & Award Policies & Procedures Guide (OPEN new browser window)
09/15/08 - Special Exceptions to the NSF Deadline Date Policy Due to Natural or Anthropogenic Events
09/06/08 - Log in to FastLane with your NSF ID instead of your Social Security Number (SSN).
07/01/08 - Graduate Research Fellowship Program FastLane Enhancements, 08/01/2008
10/22/07 - Effective January 5, 2008, proposers are required to register in the Central Contractor Registration prior to proposal submission.

National Science Foundation
4201 Wilson Boulevard, Arlington, Virginia 22230, USA
Tel: 703-292-5111, FAX: 800-877-6339 | TDD: 703-292-5690
Prepare a New Notification or Request for Award #: 0707551

Award Amount: $1,000
Expiration Date: 01/31/2015
Division: Division of Information Systems
Award Title: PRS demo awd
Awardee Organization: NSF
PI/PD: Alphaman, Alan

Select the Notification or Request Type:

**GRANTEE NOTIFICATION TYPES**
- Grantee Approved No Cost Extension
- Expected Significant Cost to the government
- Short-Term Absence of the PI/PD (Up to Three Months)
- Significant Change in Methods/Procedures

**GRANTEE REQUEST TYPES**
- Withdrawal of PI/COP
- Reallocation of Funds Budgeted for Participant or Trainee Support Costs
- Rearrangement/Unforeseen Budget $25,000 or over
- NSF Approved No Cost Extension
- Changes in Objective or Scope
- Long-Term Absence of the PI/PD (Over Three Months)
- Addition of Sub-Award
- Significant Change in Person-Months Devoted to Project
- PI Transfer
- Change of PI

*Topic Guidance is provided through the Award & Administration Guide (AAG) reference.

Download Adobe Acrobat Reader for viewing PDF files

FastLane Demonstration Site
About Notifications and Requests

Notifications and requests communicate changes in the scope, time, staff or budget of an NSF funded project. Depending on the type of change, awardee organizations must notify or request approval from NSF prior to taking action. Depending on the type of notifications or requests, they can be created and submitted by either the Principal Investigators (PIs) and/or Sponsored Project Offices (SPOs).

Full listing of all NSF notifications and requests

As part of the effort to modernize FastLane, the National Science Foundation is transitioning the notifications and requests functionality from FastLane to Research.gov. The table below provides the location for each notification and request.

<table>
<thead>
<tr>
<th>Type</th>
<th>Notification or Request</th>
<th>Policy Reference</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>Budget Activities</strong></td>
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<tr>
<td></td>
<td>Additional categories of participant support costs other than those described in 2 CFR § 200.75 (such as incentives, gifts, souvenirs, t-shirts and/or memorabilia)</td>
<td>Request</td>
<td>GPG (II.C.2.g(v))</td>
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<tr>
<td></td>
<td>Change in Person-Months Devoted to Project</td>
<td>Request</td>
<td>AAG (II.B.2.d)</td>
</tr>
<tr>
<td></td>
<td>Pre-award Costs in Excess of 90 days</td>
<td>Request</td>
<td>AAG (V.A.2.b)</td>
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<tr>
<td></td>
<td>Reallocations of Funds Provided for Participant Support Costs</td>
<td>Request</td>
<td>GPG (II.C.2.g(v))</td>
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<tr>
<td></td>
<td>Rearrangements/Alterations in excess of $25,000 (Construction)</td>
<td>Request</td>
<td>AAG (V.C.1)</td>
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<tr>
<td></td>
<td>Salaries of Administrative or Clerical Staff</td>
<td>Request</td>
<td>GPG (II.C.2.g(i)(b))</td>
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<tr>
<td>Travel Costs for Dependents</td>
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<td>GPG (II.C.2.g(iv)(a))</td>
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<td><strong>No-Cost Extension</strong></td>
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<td>Grantee-Approved No-Cost Extension</td>
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<td>AAG (I.D.3.c(i))</td>
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<td>First NSF-Approved No-Cost Extension</td>
<td>Request</td>
<td>AAG (I.D.3.c(ii)(a))</td>
<td>Research.gov</td>
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<tr>
<td>Second NSF-Approved No-Cost Extension</td>
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<td>AAG (I.D.3.c(ii)(b))</td>
<td>Research.gov</td>
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<tr>
<td><strong>Changes in Objectives, Scope, or Methodology or other Significant Changes</strong></td>
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<tr>
<td>Changes in Objectives or Scope</td>
<td>Request</td>
<td>AAG (II.B.1.a)</td>
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<tr>
<td>Significant Changes/Delays or Events of Unusual Interest</td>
<td>Notification</td>
<td>AAG (II.B.1.c)</td>
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<tr>
<td>Changes in Methods/Procedures</td>
<td>Notification</td>
<td>Reference</td>
<td>Platform</td>
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<tr>
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</tr>
<tr>
<td>Significant Changes in Methods/Procedures Notification</td>
<td>Notification</td>
<td>AAG (II.B.1.b)</td>
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<table>
<thead>
<tr>
<th>Changes in PI/PD and co-PI/PD</th>
<th>Request</th>
<th>Reference</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-Term Disengagement of the PI/Project Director (PD) or co-PI/co-PD</td>
<td>Request</td>
<td>AAG (II.B.2.c)</td>
<td>Research.gov</td>
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<tr>
<td>PI/PD or co-PI/co-PD Transfer from one organization to another</td>
<td>Request</td>
<td>AAG (II.B.2.g)</td>
<td>FastLane</td>
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<tr>
<td>Substitute PI/PD or co-PI/co-PD</td>
<td>Request</td>
<td>AAG (II.B.2.f)</td>
<td>FastLane</td>
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<tr>
<td>Withdrawal of PI/PD or co-PI/co-PD</td>
<td>Request</td>
<td>AAG (II.B.2.e)</td>
<td>Research.gov</td>
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<tr>
<th>Other</th>
<th>Request</th>
<th>Reference</th>
<th>Platform</th>
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<tr>
<td>Annual and Final Cost Share Notification by Recipient</td>
<td>Notification</td>
<td>AAG (II.D.5)</td>
<td>FastLane</td>
</tr>
<tr>
<td>Conflicts of Interest that cannot be satisfactorily managed, reduced or eliminated and research that proceeds without the imposition of conditions or restrictions when a conflict of interest exists</td>
<td>Notification</td>
<td>AAG (IV.A)</td>
<td>Research.gov</td>
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<tr>
<td>Subawarding, Transferring or Contracting Out Part of an NSF Award</td>
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<td>GPG (II.C.2.g(vi)(e))</td>
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<td>AAG (II.B.3)</td>
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### Type of Grantee Request**

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<th>Request</th>
<th>AAM</th>
<th>Direct questions to</th>
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<tr>
<td>Subawarding, Transferring or Contracting Out Part of an NSF Award</td>
<td>VII.B.3</td>
<td>Grants Office</td>
</tr>
<tr>
<td>First NSF-Approved No-Cost Extension</td>
<td>VI.D.3.c(ii)(a)</td>
<td>Program Office</td>
</tr>
<tr>
<td>Second NSF-Approved No-Cost Extension</td>
<td>VI.D.3.c(ii)(b)</td>
<td>Grants Office</td>
</tr>
<tr>
<td>Change in Objective or Scope</td>
<td>VII.B.1.a</td>
<td>Program Office***</td>
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<tr>
<td>Long-Term Disengagement of the PI/PD or co-PI/co-PD</td>
<td>VII.B.2.c</td>
<td>Program Office***</td>
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<td>Change in Person-Months Devoted to Project</td>
<td>VII.B.2.d</td>
<td>Grants Office, if necessary</td>
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</table>

**For more information, visit: [https://www.nsf.gov/pubs/policydocs/pappg17_1/nsf17_1.pdf](https://www.nsf.gov/pubs/policydocs/pappg17_1/nsf17_1.pdf)**
NSF’s Fastlane

- Some Notifications and Requests
- Proposal submission
- Reviewing – including procedures for Preliminary and Formal proposals

Research.gov

- Some Notifications and Requests
- Financial (Business Office) Transactions
- Annual and Final Reports
- Project Outcomes Reports
Finding your Current Program Officer
Click on Awards Tab at www.nsf.gov
Enter Award Number and Click Search
### Search Results

**Back**

Results are sorted by award date, with the most recent awards at the top. Click on a column heading to re-sort the results.

The up/down arrows at the right of each column title control whether the sort is ascending or descending.

To view the abstract, click on the award number or title. Click on the data in other columns to perform a new search with that parameter.

**Refine Search**

**One award found.**

<table>
<thead>
<tr>
<th>Award Number</th>
<th>Title</th>
<th>NSF Organization</th>
<th>Program(s)</th>
<th>Start Date</th>
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<tbody>
<tr>
<td>0501626</td>
<td>MATEC - National Resource Center</td>
<td>DUE</td>
<td>ADVANCED TECH EDUCATION PROG</td>
<td>07/01/2005</td>
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</table>

**Export options:** CSV | Excel | XML

**Hint:** Most browsers allow you to save the exported file by right-clicking on the link and choosing "save link target" from the menu options. See the help for r.

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**Click The Award Number Link**
**Award Abstract #0501626**

**MATEC - National Resource Center**

<table>
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<tr>
<th>Agency</th>
<th>Division of Undergraduate Education (DUE)</th>
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<tbody>
<tr>
<td>Initial Amendment Date:</td>
<td>June 8, 2005</td>
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<tr>
<td>Latest Amendment Date:</td>
<td>June 13, 2008</td>
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<tr>
<td>Award Number:</td>
<td>0501626</td>
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<tr>
<td>Award Instrument:</td>
<td>Continuing grant</td>
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</tbody>
</table>
| Program Manager: | Elizabeth Teles (DUE Division of Undergraduate Education)  
EHR Directorate for Education & Human Resources |
| Start Date: | July 1, 2005 |
| Expires: | June 30, 2009 (Estimated) |

Name of Your Program Officer Is Displayed
NSF Highlights

View the new website at:
http://www.research.gov/seeinnovation
A highlight shows…

• an exciting outcome of an NSF-supported project
• transformative results
• impacts of this outcome, including benefits to society, economy, industry, nation, region, science & engineering

Audiences include…

• Congress, other federal and state policymakers
• business & industry
• general public
• NSF (briefings, speeches, websites -- such as www.nsf.gov and "Science, Engineering, and Education Innovation" at www.research.gov/seeinnovation)

When writing a highlight…

• DO write short, straightforward sentences that articulate a single point. DON’T use long sentences with multiple clauses.
• DO use simple language. DON’T use complicated scientific terminology.
• DO write for a public audience. DON’T write the way you do when publishing in science journals. The public is interested in high-level impacts/benefits, not deep science.
Robotic Fish Uses Artificial Muscle

**Outcome:** Xiaobo Tan, of Michigan State University, modeled, designed, and constructed a ‘fish’ that uses electro-active, ionic polymer metal composites for locomotion.

**Impact/Benefits:** Dr. Tan foresees using the fish as a platform to collect environmental data by adding communication, navigation, and environmental monitoring senses.

**Background/Explanation:** Similar to muscle tissue, the composites change shape when a voltage is applied. The fish fins are integrated with a control system to provide the robotic fish with energy-efficient, fish-like maneuverability.
High-school students hunt for viruses

High-school student interns received a crash course in viruses, field ecology and lab work when they joined undergraduates and researchers at The University of Texas at Austin (UT Austin) in their attempt to isolate a nematode virus. This summer program brought students from underrepresented minority populations to the university to learn firsthand how researchers are using virus-host interactions in model systems to identify nematode viruses. The interns also learned about experimental methods, and learned how to give and interpret scientific presentations.

This work comprises a valuable subcomponent of the research being carried out at UT Austin to understand virus-host interactions. The researchers want to learn more about an emerging area of gene regulation called "RNAi interference," or RNAi. This type of regulation plays a role in preventing virus infection in some organisms, but not in others such as mammals.

The ability to study viral infection in the nematode would allow researchers to better understand viral infection, RNAi and evolution. Although the group did not isolate the nematode virus, the student interns gained valuable scientific experience and glimpsed a view of university life. Lessons learned from this collaboration will be applied to subsequent summer-high school courses.

Recent Award Highlights

TacFile displays increase STEM access for the blind and visually impaired
Device designed by a team of students converts both graphics and text into Braille
Research Areas: Engineering, Education
Locations: Texas

Science through skateboards
Sk8Lab Houston delivers lessons in experimentation and data collection
Research Areas: Education, Earth & Environment
Locations: Texas

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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?”
Advanced Technological Education Centers

Featured ATE Center:
CyberWatch West

Su Coy, San Marcos, California

After struggling to get her life on back to school at Palomar College (through an internship with the GIS Red Cross (facilitated by Palomar's Geospatial Information Systems students)), she helped build a GIS-enhanced map during a wildfire – tracking the fire's path and highlighting critical information. Su’s work helped protect the lives of both residents and emergency workers. Knowing the power of GIS and its potential to help others, she’s optimistic about her future and excited about a career in this rapidly growing field.

http://cyberwatchwest.org/

ATE Community Updates:
2014 ATE PI Conference App Available

ATE Central and AACC are pleased to announce the release of the 2014 ATE PI Conference mobile app! The app and companion website are designed to help you make the most of your conference experience. Use your phone, tablet, or Internet browser to create a personal schedule, stay up-to-date with the agenda and speaker lineup, search the attendees directory, and more! The app is available for iPhone or iPad as well as Android devices. To download the app, search your app store for "2014 ATE PI Conference" or simply follow the appropriate link from your mobile device.

For up-to-date information on the 2014 ATE PI Conference mobile app and more about the meeting, follow ATECentral and 2014Comm_College on Twitter, or visit ATE Central staff at Booth #502 (Oct 22-24).

Connect with ATE Central

Stay connected with the ATE community and ATE Central by signing up for our monthly email update ATE Central Connection, which provides up-to-date ATE news, events, reminders, and highlights new centers, projects, and resources. If you would like to see prior issues, please see the Publications tab at left. Click here to subscribe to ATE Central Connection.

ATE Student Success Stories

ATE Student Success Story Videos highlight the struggles and triumphs of a diverse set of students in community college settings. With support and guidance from ATE centers and projects, their lives and careers have been changed for the better. Each video documents a unique success story, but all of them have a common theme: technician training has the power to change lives.

View more ATE Student Success Stories →

Upcoming Events

- Oct 21 Recycled Materials
- Oct 21 2014 APYS Geospatial Summit
- Oct 22 ATE Conference 2014
- Oct 24 Spatial Analysis and Modeling Workshop
- Oct 25 Writing in the Disciplines Workshop
- Oct 25 Wine Sensory Analyst Workshop

New ATE Resources

- Modeling Metals with Marbles and BBS
- Making Ethanol
- NRECA Internship Standards
- ATE Student Success Stories: Anthony's Story
- ATE Student Success Stories: Wesley's Story
- Controlled Release Drug Delivery from Hydrogels
- SCME Webinar Link - Dida Microarray Learning Module