

NSF Regional Grants Conference Crosscutting Programs

October 5-6, 2009

Hosted by: Jackson State University, Jackson, MS

Panelists

Dragana Brzakovic

Senior Staff Associate, Office of the Director, Office of Integrative Activities

Jolene Jesse

Program Director, Directorate for Education & Human Resources, Division of Human Resource Development

Anita La Salle

Program Director, Directorate for Computer & Information Science & Engineering

Judith Verbeke

Deputy Division Director, Directorate for Biological Sciences, Division of Biological Infrastructure

Topics Covered

- **Find Funding for Crosscutting Programs**
- **Programs for Specific Groups/Purpose**
 - ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers
 - Cyber-Enabled Discovery & Innovation (CDI)
 - Grant Opportunities for Academic Liaison with Industry (GOALI)
 - Integrative Graduate Education & Research Traineeship Program (IGERT)
 - Major Research Instrumentation (MRI)
 - NSF Graduate Teaching Fellows in K-12 Education (GK-12)
 - Research Experiences for Undergraduates (REU)
 - Research in Undergraduate Institutions (RUI)
- **Conclusion**

Find Funding for Crosscutting Programs

Go to http://www.nsf.gov/funding/pgm_list.jsp?type=xcut

The screenshot shows the National Science Foundation (NSF) website. At the top left is the NSF logo with the tagline "WHERE DISCOVERIES BEGIN". To the right is a search bar with "NSF Web Site" entered. Below the logo is a navigation menu with links: HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. The main content area is titled "Crosscutting and NSF-wide Active Funding Opportunities". Below the title is a paragraph explaining that the site provides program information for activities sponsored by more than one NSF organization. There are filters for "Org:" (Crosscutting and NSF-wide) and "Status:" (Active). Below the filters are options to "Get Crosscutting Program Annncmts & Info Updates by Email" and an "RSS" icon. A "Sorted by Title" instruction is present. A "Key:" section shows "Crosscutting" selected. At the bottom, a table lists funding opportunities:

Title	Program Guidelines	Due Dates
Academic Research Infrastructure Program: Recovery and Reinvestment (ARI-R²)	09-562	

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

The screenshot shows the NSF website with the following content:

NSF National Science Foundation
WHERE DISCOVERIES BEGIN

SEARCH
NSF Web Site

HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane

Funding

NSF-wide

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers (ADVANCE)

ADVANCE Program Information

Additional information about this NSF-wide program including information about ADVANCE awards, ADVANCE Implementation Committee members, and products, tools, and resources can be found [here](#).

CONTACTS

Name	Email	Phone	Room
Jessie DeAro	jdearo@nsf.gov	(703) 292-5350	815.23
Kelly Mack	kmack@nsf.gov	(703) 292-8575	815

PROGRAM GUIDELINES

Solicitation [09-504](#)

As announced on May 21st, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>. This approach is being taken to support efficient Grants.gov operations during this busy workload period and in response to OMB direction guidance issued March 9, 2009. NSF will continue to post information about available funding opportunities to Grants.gov FIND and will continue to collaborate with institutions who have invested in system-to-system submission functionality as their preferred proposal submission method. NSF remains committed to the long-standing goal of streamlined grants processing and plans to provide a web services interface for those institutions that want to use their existing grants management systems to directly submit proposals to NSF.

- **Contacts:**
 - Jessie DeAro (EHR): (703) 292-5350; jdearo@nsf.gov
 - Kelly Mack (EHR): (703) 292-8575; kmack@nsf.gov
- **Current solicitation number: 09-504**
- **Full proposal deadline date: November 12, 2009**

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

- **Program Goal:**
 - To increase the representation and advancement of women in academic science and engineering careers.
 - Both men and women may submit proposals to this program.
- **Projects Supported in 2009-2010**
 - Institutional Transformation (IT) Projects systemically and permanently change institutional practices to promote women in STEM academics.
 - IT-Catalyst Projects support the evaluation of current institutional activities to identify areas for transformation and cultural change.
 - Partnerships for Adaptation, Implementation, and Diffusion (PAID) Projects adapt, implement, and/or distribute exemplary programs, policies, and practices to new institutions or settings.

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers (ADVANCE)

PROGRAM SOLICITATION
NSF 09-504

REPLACES DOCUMENT(S):
NSF 07-582



National Science Foundation

Directorate for Education & Human Resources
Division of Human Resource Development

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of Cyberinfrastructure

Office of International Science and Engineering

Office of Polar Programs

Estimated Number of Awards: up to 38

Anticipated Funding Amount: \$16 million over FY 2009 and FY 2010

Cyber-Enabled Discovery & Innovation (CDI)

National Science Foundation
WHERE DISCOVERIES BEGIN

SEARCH
NSF Web Site

HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane

Funding

NSF-wide
Cyber-Enabled Discovery and Innovation (CDI)

CONTACTS

Name	Email	Phone	Room
Mary Lou Maher	cdi@nsf.gov	(703) 292-8080	
Eduardo Misawa	cdi@nsf.gov	(703) 292-8080	
Thomas Russell	cdi@nsf.gov	(703) 292-8080	

Drs. Maher, Misawa and Russell are being assisted by a multidisciplinary team of Program Officers drawn from throughout NSF. CDI team members include: Kile Baker (GEO/ATM), Charles Bouldin (MPS/DMR), Maria Burka (ENG/CBET), Arlene de Strulle (EHR/DRL), Anne Emig (OD/OISE), Anne-Francoise Lamblin (BIO/DBI), D. Terence Langendoen (SBE/BCS), Anita La Salle (CISE/CCF), Dan Lubin (OD/OPP), Peter McCartney (BIO/DBI), Barbara Olds (EHR/OAD), Abani Patra (OD/OCI), Wayne Patterson (OD/OISE), Diana Rhoten (OD/OCI), Sirin Tekinay (CISE/CCF), Rita Teutonico (SBE/OAD), William Wiseman (OD/OPP) and Eva Zanzerkia (GEO/EAR).

PROGRAM GUIDELINES
Solicitation [08-604](#)

As announced on May 21st, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>. This approach is being taken to support efficient Grants.gov operations during this busy workload period and in response to OMB direction guidance issued March 9, 2009. NSF will continue to post information about available funding opportunities to Grants.gov FIND and will continue to collaborate with institutions

Find Funding
A-Z Index of Funding Opportunities
Recent Funding Opportunities
Upcoming Due Dates
Advanced Funding Search
How to Prepare Your Proposal
About Funding

Proposals and Awards
Proposal and Award Policies and Procedures Guide
Introduction
Proposal Preparation and Submission
• [Grant Proposal Guide](#)
• [Grants.gov Application Guide](#)

- **Contact Information:**
 - (703) 292-8080
 - cdi@nsf.gov
- **Solicitation number: 08-604**

Cyber-Enabled Discovery & Innovation (CDI)

- **Program Information:**
 - Five year program, started in FY 2007
 - Cross-NSF: all directorates participating
- **Program Goals:**
 - To support multi-disciplinary research for advancing more than one field of science or engineering as they become increasingly computational (referring to computational concepts, methods, models, algorithms, tools, as applied to all fields of science/engineering).
 - To produce paradigm shifts in our understanding of science and engineering phenomena and socio-technical innovations.

Cyber-Enabled Discovery & Innovation (CDI)

- **CDI seeks ambitious, transformative, multidisciplinary research proposals within or across the following areas:**
 - **From Data to Knowledge:** enhancing human cognition and generating new knowledge from heterogeneous digital data.
 - **Understanding Complexity in Natural, Built, and Social Systems:** deriving fundamental insights on systems comprising multiple interacting elements.
 - **Building Virtual Organizations:** enhancing discovery and innovation by bringing people and resources together across institutional, geographical and cultural boundaries.

Cyber-Enabled Discovery & Innovation (CDI)

- **Two types of awards will be supported as a result of the first (FY 2009) CDI competition:**
 - **Type I Awards**: Summer support for two investigators with complementary expertise; two graduate students; and their collective research needs (e.g., materials, supplies, travel) for three years.
 - **Type II Awards**: Summer support for three investigators with complementary expertise; three graduate students; one or two senior personnel (including post-doctoral researchers and staff); and their collective research needs (e.g., materials, supplies, travel) for four years.

Cyber-Enabled Discovery & Innovation (CDI)

- **In subsequent years, another type of award will be supported:**
 - **Type III Awards**: Will require larger (than Type II) multidisciplinary teams, roughly comparable to multiple senior investigators with complementary expertise, multiple graduate students, several senior personnel, and their collective research needs (e.g., materials, supplies, travel) for up to five years.

Cyber-Enabled Discovery & Innovation (CDI)

Cyber-Enabled Discovery and Innovation (CDI)

PROGRAM SOLICITATION
NSF 08-604

REPLACES DOCUMENT(S):
NSF 07-603



National Science Foundation

Directorate for Biological Sciences
Directorate for Computer & Information Science & Engineering
Directorate for Education & Human Resources
Directorate for Engineering
Directorate for Geosciences
Directorate for Mathematical & Physical Sciences
Directorate for Social, Behavioral & Economic Sciences
Office of Cyberinfrastructure
Office of International Science and Engineering
Office of Polar Programs
Office of Integrative Activities

**Estimated Number
of Awards: 30**

**Anticipated Funding
Amount: \$26 million**

Cyber-Enabled Discovery & Innovation (CDI)

- **Eligibility Information:**

Proposals may only be submitted by U.S. organizations. Specifically:

- Non-profit, non-academic organizations (i.e., independent museums, observatories, research labs, professional societies) in associated with educational or research activities and subject to Grant Proposal Guide (GPG) guidelines.
- Universities and colleges (including two-year, four-year, and community colleges).

Note: an individual may participate as Principal Investigator, co-Principal Investigator, or Senior Personnel in, at most, two letters of intent, preliminary proposals, and full proposals in each annual competition.

Grant Opportunities for Academic Liaison with Industry (GOALI)

NSF-wide
Grant Opportunities for Academic Liaison with Industry (GOALI)

CONTACTS

Name	Email	Phone	Room
Donald_Senich	dsenich@nsf.gov	(703) 292-7082	550 S
John_Cherniavsky	jchernia@nsf.gov	(703) 292-5136	855S
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Leonard_Johnson	lejohnso@nsf.gov	(703) 292-8559	
Glenn_Larsen	glarsen@nsf.gov	(703) 292-8383	
Jacqueline_Meszoros	jmeszaro@nsf.gov	(703) 292-7261	980.12
Diane_Jofuku_Okamuro	dokamuro@nsf.gov	(703) 292-8470	
Sonia_Ortega	sortega@nsf.gov	(703) 292-8697	
Celeste_Rohifing	crohffin@nsf.gov	(703) 292-4962	1005N
Osman_A._Shinaishin	oshinais@nsf.gov	(703) 292-7228	

PROGRAM GUIDELINES
 Solicitation [09-516](#)

As announced on May 21st, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>. This approach is being taken to support efficient Grants.gov operations during this busy workload period and in response to OMB direction guidance issued March 9, 2009. NSF will continue to post information about available funding opportunities to Grants.gov FIND and will continue to collaborate with institutions who have invested in system-to-system submission functionality as their preferred proposal submission method. NSF remains committed to the long-standing goal of streamlined grants processing and plans to provide a web services interface for those institutions that want to use their existing grants management systems to directly submit proposals to NSF.

- Contact disciplines for deadlines and contact information.

- Current solicitation number: 09-516

Grant Opportunities for Academic Liaison with Industry (GOALI)

- **Program Goals:**
 - To promote university-industry partnerships by making project funds or fellowships/traineeships available to support an eclectic mix of industry-university linkages.
 - To fund research that lies beyond that which industry would normally fund by themselves.
- **The solicitation targets high-risk/high-gain research with a focus on fundamental topics, new approaches to solving generic problems, development of innovative collaborative industry-university educational programs, and direct transfer of new knowledge between academe and industry.**

Grant Opportunities for Academic Liaison with Industry (GOALI)

Grant Opportunities for Academic Liaison with Industry (GOALI)

PROGRAM SOLICITATION
09-516

REPLACES DOCUMENT(S):
NSF 07-522



National Science Foundation

Directorate for Biological Sciences
Directorate for Computer & Information Science & Engineering
Directorate for Education & Human Resources
Directorate for Engineering
Directorate for Geosciences
Directorate for Mathematical & Physical Sciences
Directorate for Social, Behavioral & Economic Sciences
Office of International Science and Engineering

Supplement Due Date(s):

Proposals Accepted Anytime

Investigators should discuss supplemental funding with their NSF program officer prior to submission.

Full Proposal Deadline(s):

Proposals Accepted Anytime

Check with the program officer in the specific field of the proposed research for acceptable submission periods.

Estimated Number of Awards: 60 to 80

Anticipated Funding Amount: \$10 million from all participating directorates

Grant Opportunities for Academic Liaison with Industry (GOALI)

- **Eligibility Information:**

- **Proposals may only be submitted by U.S. institutions of higher education that confer degrees in research areas normally supported by NSF:**
 - **Proposals may only be submitted on behalf of faculty members with full-time appointments.**
 - **Federal laboratories and agencies, national labs, and non-profit organizations are encouraged to participate in three-way collaborations that also include the university and industry.**
 - **For fellowships/traineeships, only U.S. citizens, nationals, or permanent residents are eligible to apply for support under this program.**

Note: Only one proposal to NSF will be accepted per PI per fiscal year for GOALI consideration.

Integrative Graduate Education and Research Traineeship (IGERT)

NSF National Science Foundation
WHERE DISCOVERIES BEGIN

SEARCH
NSF Web Site

HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane

Funding

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Find Funding
A-Z Index of Funding Opportunities
Recent Funding Opportunities
Upcoming Due Dates
Advanced Funding Search
How to Prepare Your Proposal
About Funding

Proposals and Awards
Proposal and Award Policies and Procedures Guide
Introduction
Proposal Preparation and Submission
Award and Administration
Award Conditions
Other Types of Proposals
Merit Review

NSF-wide

Integrative Graduate Education and Research Traineeship Program (IGERT)

Presentation on IGERT Proposal Preparation

Watch a streaming [video](#) presentation by IGERT program officers discussing the proposal preparation process.

CONTACTS

Name	Email	Phone	Room
Melur K. Ramasubramanian	mramasub@nsf.gov	(703) 292-5089	
Carol Van Hartesveldt	cvanhart@nsf.gov	703-292-8112	875
Yvette D. Jackson	yjackson@nsf.gov	(703) 292-4925	
Gabrielle Hrycyshyn	ghrycsh@nsf.gov	(703) 292-2949	

IGERT Coordinating Committee members are listed on the IGERT web page, at <http://www.nsf.gov/crssprgm/igert/cc.jsp>.

PROGRAM GUIDELINES

Solicitation [09-519](#)

As announced on May 21st, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>. This approach is being taken to support efficient Grants.gov operations during this busy workload period and in response to OMB direction guidance issued March 9, 2009. NSF will continue to post information about available funding opportunities to Grants.gov FIND and will continue to collaborate with institutions who have invested in system-to-system submission functionality as their preferred proposal submission method. NSF remains committed to the long-standing goal of streamlined grants processing and plans to provide a web services interface for those institutions that want to use their existing grants management systems to directly submit proposals to NSF.

- Coordinating Committee members are listed at: <http://www.nsf.gov/crssprgm/igert/cc.jsp>
- Deadline for full proposal (invitation only): September 14, 2009
- Solicitation number: 09-519

Integrative Graduate Education and Research Traineeship (IGERT)

- **Program Goals:**

- **To meet the challenges of educating U.S. Ph.D. scientists and engineers who will pursue careers in research and education with interdisciplinary backgrounds; deep knowledge in chosen disciplines; and the technical, professional, and personal skills to become leaders and creative agents for change.**
- **To catalyze a cultural change in graduate education for students, faculty, and institutions by establishing innovative models for graduate education and training in a fertile environment for collaborative research that transcends traditional disciplinary boundaries.**
- **To contribute to a world-class, broadly inclusive, and globally engaged science and engineering workforce.**

Integrative Graduate Education and Research Traineeship (IGERT)

Integrative Graduate Education and Research Traineeship Program (IGERT)

PROGRAM SOLICITATION
NSF 09-519

REPLACES DOCUMENT(S):
NSF 08-540



National Science Foundation

Directorate for Education & Human Resources
Division of Graduate Education

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Office of Polar Programs

Directorate for Social, Behavioral & Economic Sciences

Office of International Science and Engineering

**Estimated Number
of Awards: 18**

**Anticipated
Funding Amount:
\$10.8 million**

Integrative Graduate Education and Research Traineeship (IGERT)

- **Eligibility Information:**
 - The PI must be on the faculty of the submitting institution.
 - There is a limit of four preliminary proposals that may be submitted by an institution either as a single institution or as a lead institution in a multi-institution preliminary proposal.
 - Any given individual may participate as PI or co-PI in only one proposal submission.

Major Research Instrumentation (MRI)

The screenshot shows the NSF OIA website. At the top, there is a navigation bar with links: HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | PastLane. Below this is the NSF logo and the text "National Science Foundation Office of Integrative Activities (OIA)". A search bar is visible with "NSF Web Site" entered. The main content area features a header for "Major Research Instrumentation Program" with a small NSF logo. Below the header is a paragraph describing the MRI program: "The Major Research Instrumentation Program (MRI) catalyzes new knowledge and discoveries by empowering the Nation's scientists and engineers with state-of-the-art research instrumentation. The MRI Program enables research-intensive learning environments that promote the development of a diverse workforce and next generation instrumentation, as well as facilitates academic/private sector partnerships. Among the goals of the MRI Program are:" followed by a bulleted list of goals. To the right of the text is a graphic titled "MAJOR RESEARCH INSTRUMENTATION" with "MRI GOALS" listed below it. The left sidebar contains a navigation menu with links: OIA Home, About OIA, Funding Opportunities, Awards, News, Events, Discoveries, Publications, Career Opportunities, Interagency Coordinating Committee, Investment Strategies, See Additional OIA Resources, View OIA Staff, Search OIA Staff, OIA Organizations, and Programs and Activities.

Major Research Instrumentation Program

The Major Research Instrumentation Program (MRI) catalyzes new knowledge and discoveries by empowering the Nation's scientists and engineers with state-of-the-art research instrumentation. The MRI Program enables research-intensive learning environments that promote the development of a diverse workforce and next generation instrumentation, as well as facilitates academic/private sector partnerships. Among the goals of the MRI Program are:

- Supporting the acquisition of major state-of-the-art instrumentation, thereby improving access to, and increased use of, modern research and research training instrumentation by a diverse workforce of scientists, engineers, and graduate and undergraduate students;
- Fostering the development of the next generation of instrumentation, resulting in new instruments that are more widely used, and/or open up new areas of research and research training;
- Enabling academic departments, disciplinary and cross-disciplinary units, and multi-organization collaborations to create well-equipped research environments that integrate research with education;
- Supporting the acquisition and development of instrumentation that contributes to, or takes advantage of, existing investments in cyberinfrastructure, while avoiding duplication of services already provisioned by NSF investments;
- Promoting substantive and meaningful partnerships for instrument development between the academic and private sectors. Such partnerships have the potential to build capacity for instrument development in academic settings and to create new products with wide scientific and commercial impact.

- **Contact Information:**
 - (703) 292-8040
 - mri@nsf.gov

- **Upcoming deadline:**
Stay tuned

- **Most recent solicitation number:**
09-502

Major Research Instrumentation (MRI)

- **Program Goals:**
 - **To increase access to scientific and engineering equipment for research and research training in U.S. institutions of higher education, research museums, and non-profit research organizations.**
 - **To improve the quality and expand the scope of research and research training in science and engineering, and to foster the integration of research and education by providing instrumentation for research-intensive learning environments.**

Major Research Instrumentation (MRI)

Major Research Instrumentation Program (MRI)

PROGRAM SOLICITATION
NSF 09-502

REPLACES DOCUMENT(S):
NSF 08-503



National Science Foundation
Office of the Director
Office of Integrative Activities
Directorate for Biological Sciences
Directorate for Computer & Information Science & Engineering
Directorate for Education & Human Resources
Directorate for Engineering
Directorate for Geosciences
Directorate for Mathematical & Physical Sciences
Directorate for Social, Behavioral & Economic Sciences
Office of Polar Programs
Office of Cyberinfrastructure

Full Proposal Deadlines (due by 5 p.m. proposer's local time):
January 22, 2009
Fourth Thursday in January, Annually Thereafter

Estimated Number of Awards: 230

Anticipated Funding Amount: \$100 million

Major Research Instrumentation (MRI)

- **Institutional Submission Limit:**

- An organization may submit or be included as a subawardee/ subcontractor in no more than three proposals.
- If an organization submits or is included as a partner or subawardee in three proposals, at least one of the three proposals must be for instrument development.

Major Research Instrumentation (MRI)

- **Eligibility Information:**

- U.S. organizations may submit proposals provided that they are located in the U.S., its territories, and possessions. Specifically:
 - **Colleges, universities, and institutions of higher education**
 - **Independent research museums and science centers**
 - **Independent nonprofit research organizations**
 - **Consortia of eligible organizations**
 - **Small businesses**
 - May act as private sector partners with submitting organizations
 - May not submit proposals as a lead organization

Major Research Instrumentation (MRI)

- **Proposal Requirements:**

- **Cost-sharing:**
 - **The America COMPETES Act of 2007 directed NSF to require cost-sharing in the MRI Program (this requirement remains in effect)**
 - **Ph.D. granting and non-degree granting institutions: 30% cost-sharing required on all proposals**
 - **Non-Ph.D. granting institutions: no cost-sharing required**
- **More detailed format and supplemental documentation requirements**
- **More detailed eligibility requirements**

NSF Graduate Teaching Fellows in K-12 Education (GK-12)

The screenshot shows the NSF website with the following content:

NSF-wide
NSF GRADUATE TEACHING FELLOWS IN K-12 EDUCATION (GK-12)

CONTACTS

Name	Email	Phone	Room
Mimi McClure	mmcclure@nsf.gov	(703) 292-5197	875
Sonia Ortega	sortega@nsf.gov	(703) 292-8697	875 S

Members of the NSF wide GK-12 Committee represent their respective NSF organizations. They contribute funds as well as intellectual and labor capital to the program. In addition to the GK-12 staff, members of the GK-12 committee are:

- o Denise Barnes, Office of Integrative Activities
- o Renee D. Crain, Office of Polar Programs
- o Fahmida N. Chowdhury, Office of Social, Behavioral and Economic Sciences
- o Roosevelt Y. Johnson, Directorate for Education and Human Resources
- o Tyrone D. Mitchell, Directorate for Mathematics and Physical Sciences
- o Sally E. O'Connor, Directorate for Biological Sciences
- o Brian M. Patten, Directorate for Mathematics and Physical Sciences
- o Celestine H. Pea, Directorate for Education and Human Resources
- o Jennifer S. Pearl, Office of International Science and Engineering
- o Mary F. Poats, Directorate for Engineering
- o Joan T. Prival, Directorate for Education and Human Resources
- o Diana R. Rhoten, Office of Cyberinfrastructure
- o Elizabeth L. Rom, Directorate for Geosciences
- o Maria Zemankova, Directorate for Computer and Information Sciences and Engineering

• **Contacts:**

- Sonia Ortega (EHR): (703) 292-8697;
sortega@nsf.gov
- Mimi McClure (EHR): (703) 292-5197;
mmcclure@nsf.gov

• **Contact disciplines for deadlines.**

• **Current solicitation number: 09-549 (replaces 08-556)**

NSF Graduate Teaching Fellows in K-12 Education (GK-12)

- **Program Goals:**
 - **To provide funding to graduate students in NSF-supported science, technology, engineering, and mathematics (STEM) disciplines to acquire additional skills that will broadly prepare them for professional and scientific careers in the 21st century.**
 - **To improve communication, teaching, and team building skills for the fellows; professional development opportunities for K-12 teachers; enrich learning for K-12 students; and strengthen partnerships between institutions of higher education and local school districts.**

NSF Graduate Teaching Fellows in K-12 Education (GK-12)

NSF GRADUATE STEM FELLOWS IN K-12 EDUCATION (GK-12)

PROGRAM SOLICITATION
NSF 09-549

REPLACES DOCUMENT(S):
NSF 08-556



National Science Foundation

Directorate for Education & Human Resources
Division of Graduate Education

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of Polar Programs

Office of International Science and Engineering

Office of Cyberinfrastructure

**Estimated Number
of Awards: 20 to 25**

**Anticipated
Funding Amount:
\$15 million**

NSF Graduate Teaching Fellows in K-12 Education (GK-12)

- **Eligibility Information:**

- Only academic institutions in the U.S. and its territories that grant masters or doctoral degrees in STEM disciplines supported by NSF may submit proposals.
- The PI must be a faculty member in a STEM discipline at the lead institution.
- One proposal allowed per institution (new or continuing) for any one competition.

Research Experiences for Undergraduates (REU)

The screenshot shows the NSF website page for Research Experiences for Undergraduates (REU). The page features a search bar at the top right, a navigation menu with links like HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. The main content area is titled "Research Experiences for Undergraduates (REU)" and includes a "NOTE ON THE PROPOSAL DEADLINE FOR REU SITES" section. This section states: "Two due dates are listed for REU Site proposals each year. The June deadline applies only to REU Site proposals that require access to Antarctica, which must be submitted to one of the Antarctic Sciences Division (ANT) research programs in the Office of Polar Programs (OPP). The fall deadline (which is October 22 in 2009, and the fourth Wednesday in August in 2010 and beyond) applies to all other REU Site proposals." Below this, there is a "CONTACTS" section with the link "NSF REU Contacts: http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp". There is also a "PROGRAM GUIDELINES" section with a link to "Solicitation 09-598". A large paragraph of text follows, starting with "As announced on May 21st, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>." The page also has a left sidebar with various navigation links like "Find Funding", "A-Z Index of Funding Opportunities", "Recent Funding Opportunities", "Upcoming Due Dates", "Advanced Funding Search", "How to Prepare Your Proposal", "About Funding", "Proposals and Awards", "Proposal and Award Policies and Procedures Guide", "Introduction", "Proposal Preparation and Submission", "Grant Proposal Guide", "Grants.gov Application Guide", "Award and Administration", "Award and Administration Guide", "Award Conditions", "Other Types of Proposals", "Merit Review", and "NSF Outreach".

- **Contact Information:**
http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp
- **Deadlines:**
 - Full proposal for REU sites (non-Antarctic): **October 22, 2009 & August 25, 2010**
 - Full proposal for REU Sites (Antarctic): **June 4, 2010**
 - REU Supplements: **Contact individual discipline**
- **Current solicitation number: 09-598**

Research Experiences for Undergraduates (REU)

- **REU Sites:**
 - **Program Goals:**
 - To initiate and conduct projects that engage a number of undergraduate students in research.
 - To involve students in research who might not otherwise have the opportunity, particularly those from academic institutions where research programs are limited.
 - **Recruitment:**
 - Significant percentage of students from outside host institution

Research Experiences for Undergraduates (REU)

- **REU Supplements:**
 - **Program Goal:**
 - To provide support for one or two undergraduate students to participate in research, as part of a new or ongoing NSF-funded research project.
- **REU Special Opportunities:**
 - Partnership with the Department of Defense
 - Cyberinfrastructure
 - International Projects
 - Ethics in Science and Engineering
 - Research Experiments for Teachers
 - REU Supplements for Evaluative Research Experiences

Research Experiences for Undergraduates (REU)

Research Experiences for Undergraduates (REU)
Sites and Supplements

PROGRAM SOLICITATION
NSF 09-598

REPLACES DOCUMENT(S):
NSF 07-569

 **National Science Foundation**
Directorate for Biological Sciences
Directorate for Computer & Information Science & Engineering
Directorate for Education & Human Resources
Directorate for Engineering
Directorate for Geosciences
Directorate for Mathematical & Physical Sciences
Directorate for Social, Behavioral & Economic Sciences
Office of Cyberinfrastructure
Office of International Science and Engineering
Office of Polar Programs

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):
Deadline for REU Site proposals except those requiring access to Antarctica:
October 22, 2009

- REU activity may be funded in several different ways:
 - A standard or continuing grant (for REU Sites)
 - A supplement to an existing award
 - A component of a new or renewal grant or cooperative agreement

- **Estimated Number of Awards: 1,800 to 1,850**
 - Estimate includes approximately 170 new site awards and 1,650 new supplement awards.
- **Anticipated Funding Amount: \$67.7 million in FY 2010**
 - Estimate includes both sites and supplements.

Research in Undergraduate Institutions (RUI)

The screenshot shows the NSF website with the following content:

- Header:** National Science Foundation logo and tagline "WHERE DISCOVERIES BEGIN". A search bar is present with "NSF Web Site" entered.
- Navigation:** A menu bar with links: HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane.
- Left Sidebar:**
 - Funding:** A-2 Index of Funding Opportunities, Recent Funding Opportunities, Upcoming Due Dates, Advanced Funding Search, How to Prepare Your Proposal, About Funding.
 - Proposals and Awards:** Proposal and Award Policies and Procedures Guide (Introduction), Proposal Preparation and Submission (Grant Proposal Guide, Grants.gov Application Guide), Award and Administration (Award and Administration Guide).
- Main Content:**
 - Crosscutting/NSF-wide:** Research in Undergraduate Institutions (RUI) with a small NSF logo icon.
 - CONTACTS:** A table listing contact information for various disciplines.
 - PROGRAM GUIDELINES:** Announcement 00-144.

Name	Dir/DIV	Name	Dir/DIV
Carol Bessel	MPS/CHE	Henry N. Blount	GIA/EPSCoR
Deborah L. Crawford	CISE/OAD	Richard J. Fragaszy	ENG/EFRI
Jill L. Karsten	GEO/OAD	Michael Mishkind	BIO/IOS
Julie M. Palais	OD/OPP		

PROGRAM GUIDELINES
Announcement [00-144](#)

As announced on May 21st, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>. This approach is being taken to support efficient Grants.gov operations during this busy workload period and in response to OMB direction guidance issued March 9, 2009. NSF will continue to post information about available funding opportunities to Grants.gov FIND and will continue to collaborate with institutions who have invested in system-to-system submission functionality as their preferred proposal submission method. NSF remains committed to the long-standing goal of streamlined grants processing and plans to provide a web services interface for those institutions that want to use their existing grants management systems to directly submit proposals to NSF.

Please be advised that the NSF Proposal & Award Policies & Procedures Guide (PAPPG) includes revised guidelines to implement the mentoring provisions of the America COMPETES Act (ACA) (Pub. L. No. 110-69, Aug. 9, 2007.) As

• **Contact discipline for deadlines and contact information.**

• **Current solicitation number: 00-144**

Research in Undergraduate Institutions (RUI)

- **Program Goals:**
 - To support high quality research with active involvement of undergraduates.
 - To strengthen the research environment in undergraduate institutions.
 - To promote integration of research and education in undergraduate institutions.
- **Proposal Types:**
 - Regular research
 - Multi-user instrumentation
 - Research opportunity awards
- **Eligibility Information:**
 - Institutions that award an average of 10 or fewer Ph.D or D.Sc. Degrees per year in all NSF-supportable disciplines are eligible.

For More Information

ADVANCE

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5383

CDI

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503163

GOALI

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13706

IGERT

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12759

MRI

<http://www.nsf.gov/od/oia/programs/mri/>

GK-12

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5472

For More Information

REU

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517

RUI

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518

For More Information

Ask Early, Ask Often!

<http://www.nsf.gov/staff>

<http://www.nsf.gov/staff/orglist.jsp>