



National Science Foundation
WHERE DISCOVERIES BEGIN

NSF Grants Conference Crosscutting Programs

June 23-24, 2014

Hosted by Colorado State University, Denver, Colorado

Colorado
State
University



Panelists

Sankar Basu

Program Director, Directorate for Computer & Information Science & Engineering; Division of Computing & Communication Foundations

George Hazelrigg

Acting Division Director, Directorate for Engineering, Division of Civil, Mechanical & Manufacturing Innovation

Susan Sterett

Program Director, Directorate for Social, Behavioral & Economic Sciences; Division of Social & Economic Sciences

Jermelina Tupas

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



Topics Covered

- **ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers (ADVANCE)**
- **Graduate Research Fellowship Program (GRFP)**
- **Grant Opportunities for Academic Liaison with Industry (GOALI)**
- **NSF Research Traineeship Program (NRT)**
- **Research Experiences for Undergraduates (REU)**
- **Research in Undergraduate Institutions (RUI)**
- **Grants for Rapid Response Research (RAPID) & EARLY-concept Grants for Exploratory Research (EAGER)**



Find Funding for Crosscutting Programs

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

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Crosscutting and NSF-wide Active Funding Opportunities

This site provides program information for activities sponsored by more than one NSF organization. In addition, all NSF organizations accept proposals that cut across organizational and programmatic boundaries. We suggest that those seeking support for interdisciplinary work not described here consult the NSF program site(s) closest to the science, engineering or education focus of the planned work and contact relevant program officers to discuss submission of a proposal.

Org: Status:

Get Crosscutting Program Annncmts & Info Updates by Email | RSS

Sorted by Title. Click column headings to sort.

Key: Crosscutting | NSF-wide | Grants.gov submission required

Title	Program Guidelines	Due Dates
Academic Research Infrastructure Program: Recovery and Reinvestment (ARI-R2)	09-562	Current but no longer receiving proposals
ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers	14-573	Letter of Intent: August 11, 2014 Letter of Intent: August 20, 2014 Full Proposal: September 22, 2014 Full Proposal: October 3, 2014
Algorithms for Threat Detection (ATD)	12-502	Waiting for new publication



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

CONTACTS

Name	Email	Phone	Room
Beth Mitchneck	bmitchne@nsf.gov	(703) 292-5178	
Mary Anne Holmes	mholmes@nsf.gov	(703) 292-4679	
Cynthia R. Douglas	cdouglas@nsf.gov	(703) 292-5175	815N

- **Contact:**
New Information to be posted soon
- **Deadlines:**
Letter of Intent due dates vary by track

Full Proposal deadlines:

- September 22, 2014: PLAN IHE
- October 3, 2014: PLAN D
- November 3, 2015: IT Catalyst
- January 20, 2016: IT



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

- **Program Goal:**
 - To develop systemic approaches to increase the representation and advancement of women in academic STEM careers.
 - To contribute to and inform the general knowledge base on gender equity in the academic STEM disciplines.
- **Projects Supported in 2015-2016**
 - Partnerships for Learning and Adaptation Networks: Institutions of Higher Education
 - Partnerships for Learning and Adaptation Networks: STEM Disciplines
 - Institutional Transformation Catalyst Projects support the evaluation of current institutional activities to identify areas for transformation and cultural change.
 - Institutional Transformation Projects systemically and permanently change institutional practices to promote women in STEM academics.
- **ADVANCE does not support activities to increase or retain the number of women entering into or persisting in STEM doctoral degree programs.**



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 14-573

REPLACES DOCUMENT(S):
NSF 12-584



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 International and Integrative Activities

Letter of Intent Due Date(s) (required) (due by 5 p.m. proposer's local time):

August 11, 2014

Partnerships for Learning and Adaptation Networks: Institutions of Higher Education (PLAN IHE)

August 20, 2014

Partnerships for Learning and Adaptation Networks: STEM Disciplines (PLAN D)

October 05, 2015

Institutional Transformation Catalyst (IT Catalyst)

November 05, 2015

Institutional Transformation (IT)

Estimated Number of
Awards: 20

Anticipated Funding
Amount: \$11 million



Graduate Research Fellowship Program (GRFP)

NSF National Science Foundation
WHERE DISCOVERIES BEGIN

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NSF-wide

NSF Graduate Research Fellowship Program (GRFP)

GRFP Application Period Now Open

The NSF Graduate Research Fellowship Program (GRFP) [application](#) period is now open! NSF is soliciting applications for the GRFP until the posted deadlines in early November 2013. Since 1952, GRFP has provided Fellowships to individuals selected early in their graduate careers based on their demonstrated potential for significant achievements in science and engineering. Three years of support is provided by the program for graduate study that is in a field within NSF's mission and leads to a research-based master's or doctoral degree. The NSF expects to award 2,700 Graduate Research Fellowships under this program solicitation pending availability of funds.

CONTACTS

The Graduate Research Fellowship Operations Center is responsible for processing applications and responding to requests for information. General inquiries regarding the Graduate Research Fellowship Program should be made to:

Graduate Research Fellowship Operations Center, telephone: 866-NSF-GRFP, 866-673-4737 (toll-free from the US and Canada) or 202-331-3542 (international). email: info@nsfgrfp.org

Find Funding

A-Z Index of Funding Opportunities

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Upcoming Due Dates

Advanced Funding Search

Interdisciplinary Research

How to Prepare Your Proposal

About Funding

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Introduction

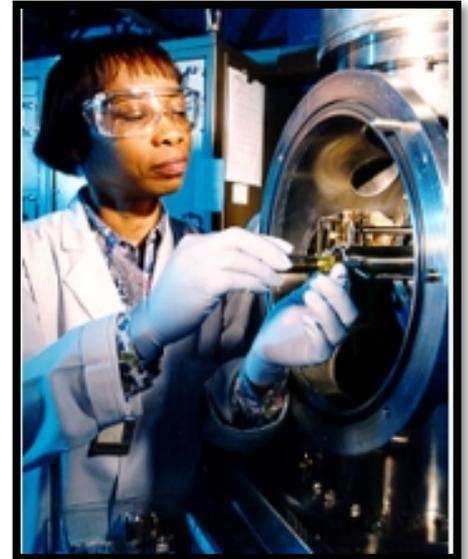
Proposal Preparation and Submission

- **Contact:**
GRFP Operations Center
866-NSF-GRFP; 866-673-4737
info@nsfgrfp.org
- **Deadline:**
Fall 2014
- **2014 solicitation under development**



Graduate Research Fellowship Program (GRFP)

- **Individual applications: research-based master's and doctoral degree in STEM including STEM education**
- **Awards about 2,700 for FY14**
- **Support STEM graduate students for 3 years**
- **Expand international research collaboration through Graduate Research Opportunities Worldwide (GROW):**
<http://www.nsf.gov/pubs/2014/nsf14005/nsf14005.pdf>
- **3-12 months research in partner countries**





Graduate Research Fellowship Program (GRFP)

- **Program Goals:**

- Select, recognize, and financially support individuals early in their careers with the demonstrated potential to be high achieving scientists and engineers.
- Broaden participation in science and engineering of underrepresented groups, including women, minorities, persons with disabilities, and veterans.



Graduate Research Fellowship Program (GRFP)

- **Funding:**

- Each Fellowship consists of three years of support usable over a five-year period.
- For each year of support, NSF provides a stipend of \$32,000 to the Fellow and a cost-of-education allowance of \$12,000 to the degree-granting institution.



Graduate Research Fellowship Program (GRFP)

Graduate Research Fellowship Program (GRFP)

PROGRAM SOLICITATION
NSF 13-584

REPLACES DOCUMENT(S):
NSF 12-599



National Science Foundation

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Education & Human Resources
Division of Graduate Education

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of International and Integrative Activities

**Estimated Number of
Awards: 2,700**

**Anticipated Funding
Amount: \$325 million**



Grant Opportunities for Academic Liaison with Industry (GOALI)

Funding

NSF-wide

Grant Opportunities for Academic Liaison with Industry (GOALI)

CONTACTS

Name	Email	Phone	Room
Donald Senich	dsenich@nsf.gov	(703) 292-7082	575S
Dean M. Evasius	devasius@nsf.gov	(703) 292-8132	
William S. Bainbridge	wbainbri@nsf.gov	(703) 292-8930	1125S
John C. Cherniavsky	jchernia@nsf.gov	(703) 292-5136	855S
Leonard E. Johnson	lejohnso@nsf.gov	(703) 292-8559	785S
Graham M. Harrison	gharriso@nsf.gov	(703) 292-7252	115S
Fahmida N. Chowdhury	fchowdhu@nsf.gov	(703) 292-4672	905N
Diane J. Okamuro	dokamuro@nsf.gov	(703) 292-4400	690N

PROGRAM GUIDELINES

Solicitation [12-513](#)

DUE DATES

Full Proposal Accepted Anytime
Please contact the appropriate disciplinary program office to obtain information about current deadline dates.

Supplement Accepted Anytime
Please discuss with the appropriate disciplinary program office prior to submitting a request for supplemental funding.

Proposal submission dates vary by disciplinary program.

- Contact disciplines for deadlines and contact information.
- Current solicitation number: 12-513



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)

- **Eligibility Information:**

- For fellowships/traineeships, only U.S. citizens, nationals, or permanent residents are eligible to apply for support under this program.
- NSF funds cannot go to an industry partner; they can only be used by the academic institution. The industry partner is expected to participate in the research effort to facilitate in the commercialization of the research.



Grant Opportunities for Academic Liaison with Industry (GOALI)

Grant Opportunities for Academic Liaison with Industry (GOALI)

PROGRAM SOLICITATION
NSF 12-513

REPLACES DOCUMENT(S):
NSF 10-580



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 and Integrative Activities

Supplement Due Date(s) (due by 5 p.m. proposer's local time):

Proposals Accepted Anytime

Estimated Number of Awards: 60 to 80

Anticipated Funding Amount: \$5 million



NSF Research Traineeship Program (NRT)

The screenshot shows the NSF website's 'Funding' section for the NRT program. The header includes the NSF logo and navigation links like 'HOME', 'FUNDING', 'AWARDS', etc. The main content area features a 'Crosscutting/NSF-wide' section for the 'National Science Foundation Research Traineeship Program (NRT)'. Below this, there are sections for 'CONTACTS' (with a table), 'PROGRAM GUIDELINES' (including solicitation number 14-548), 'DUE DATES' (listing a full proposal deadline of June 24, 2014), and 'SYNOPSIS' (describing the program's goal to encourage STEM graduate training).

Name	Dir/Div	Name	Dir/Div
NRT Program			

- **Contact Information:**
nrtnsf@nsf.gov; 703-292-8696
- **Deadlines:**
 - May 20, 2014 – Letter of Intent (Optional)
 - June 24, 2014 – Full Proposal
- **Current Solicitation Number: 14-548**



NSF Research Traineeship Program (NRT)

- **Integrative Graduate Education and Research Traineeship Program (IGERT) & NSF Graduate Fellows in K-12 Education (GK-12)**
- **Allow for institutional traineeship program; focus on national needs in science and engineering enterprise**
- **Incorporate plans for transforming aspects of graduate programs and experiences at those institutions**
- **Institutional program for masters and doctoral students; focus on academic and non-academic STEM careers**
- **Emphasis on partnerships with industry**





NSF Research Traineeship Program (NRT)

- **Program Goals:** To encourage the development of bold, new, potentially transformative, and scalable models for STEM graduate training that ensure that graduate students develop the skills, knowledge, and competencies needed to pursue a range of STEM careers.
- **Eligibility Information:**
 - PI must be on the faculty of the submitting institution
 - Each institution may submit up to two proposals
 - An individual may serve as PI or Co-PI on only one NRT proposal



NSF Research Traineeship Program (NRT)

National Science Foundation Research Traineeship (NRT) Program

PROGRAM SOLICITATION

NSF 14-548



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 International and Integrative Activities

Letter of Intent Due Date(s) (optional) (due by 5 p.m. proposer's local time):

May 20, 2014

NRT Letter of Intent

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

June 24, 2014

NRT Full Proposal

IMPORTANT INFORMATION AND REVISION NOTES

The NSF Research Traineeship (NRT) program is a new NSF graduate education initiative. This solicitation is active for one year, but future NRT solicitations are anticipated. The last competition for the Integrated Graduate Research Traineeship (IGERT) program was held in 2013; no future IGERT competitions are planned.

**Estimated number
of awards: 8 to 10**

**Anticipated funding
amount: \$24 to \$30
million**



Research Experiences for Undergraduates (REU)

The screenshot shows the NSF website's page for Research Experiences for Undergraduates (REU). The header features the NSF logo and the tagline "WHERE DISCOVERIES BEGIN". A search bar and a "QUICK LINKS" button are also present. The navigation menu includes "HOME", "FUNDING", "AWARDS", "DISCOVERIES", "NEWS", "PUBLICATIONS", "STATISTICS", "ABOUT NSF", 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. The note states: "Two due dates are listed for REU Site proposals each year. The May 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 September 12 in 2012, and the fourth Wednesday in August in 2013 and beyond) applies to all other REU Site proposals." Below this, there are sections for "CONTACTS" and "PROGRAM GUIDELINES". The "CONTACTS" section provides the URL: http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp. The "PROGRAM GUIDELINES" section lists the solicitation number "13-542" and the "DUE DATES". The "DUE DATES" section lists two deadlines: "Full Proposal Deadline Date: August 27, 2014" (for proposals requiring access to Antarctica) and "Full Proposal Deadline Date: May 22, 2015" (for all other REU Site proposals). The page also includes a sidebar with "Funding" and "Proposals and Awards" sections.

- **Contact Information:**
http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp
- **Deadlines:**
 - Full Proposal for REU Sites (Antarctica): May 23, 2014
 - Full Proposal for REU Sites (non-Antarctica): August 27, 2014
- **Current solicitation number:**
13-542



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
- Partnership with the Department of Energy's Geothermal Technologies Program
- International Projects
- Research Experiences for Teachers



Research Experiences for Undergraduates (REU)

Research Experiences for Undergraduates (REU)

Sites and Supplements

PROGRAM SOLICITATION

NSF 13-542

REPLACES DOCUMENT(S):

NSF 12-569



National Science Foundation

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering
Division of Advanced Cyberinfrastructure

Directorate for Education & Human Resources

Directorate for Engineering

Directorate for Geosciences
Division of Polar Programs

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of International and Integrative Activities

Estimated Number of Awards:

180 new site awards and 1,600 new supplement awards per year

Anticipated Funding Amount:

\$68 million

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



Research in Undergraduate Institutions (RUI)

Facilitating Research at Primarily Undergraduate Institutions: (RUI)

CONTACTS

Name	Dir/Div	Name	Dir/Div
Richard J. Fragaszy	ENG/EFRI	Jill L. Karsten	GEO/OAD
Michael Mishkind	BIO/IOS	Julie M. Palais	GEO/PLR
Edward Taylor	MPS/DMS	Harriet G. Taylor	CISE/CNS

PROGRAM GUIDELINES

Announcement [00-144](#)

DUE DATES

Full Proposal Accepted Anytime

Many NSF programs have deadlines or target dates to allow time for consideration by review panels that meet periodically. Proposals must be submitted by the investigator's home institution in accordance with the target dates or deadlines, if any, of the NSF disciplinary program in the proposed research area. To confirm a date, refer to the program's page on the NSF Web site (<http://www.nsf.gov/>) or to the NSF E-Bulletin, at <http://www.nsf.gov/home/ebulletin/>. Inquiries about deadlines may be made also to the appropriate research program officer. Such inquiries are especially important for shared-use instrumentation proposals, which are sometimes funded cooperatively by two or more programs, depending upon the disciplinary mix of the users. Some programs require the submission of preliminary proposals prior to the submission of full proposals, with due dates posted on program Web sites and in the NSF E-Bulletin.

- 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.



Research in Undergraduate Institutions (RUI)

Research in Undergraduate Institutions (RUI) Faculty Research Projects; Research Instrumentation Grants; and Research Opportunity Awards

PROGRAM ANNOUNCEMENT

NSF 00-144



National Science Foundation

Office of International and Integrative Activities

Directorate for Geosciences
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Directorate for Social, Behavioral & Economic Sciences

Directorate for Computer & Information Science & Engineering

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

Proposals Accepted Anytime

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Facilitating Research at Primarily Undergraduate Institutions:
Research in Undergraduate Institutions (RUI) and Research Opportunity Awards (ROA)

Synopsis of Program:

The Research in Undergraduate Institutions (RUI) activity supports research by faculty

Estimated Number of Awards:
Varies across disciplinary
research programs

Anticipated Funding Amount:
Varies across disciplinary
research programs



Grants for Rapid Response Research (RAPID)

The RAPID funding mechanism is for projects having a severe urgency with regard to availability of, or access to data, facilities or specialized equipment, including quick-response research on natural or anthropogenic disasters and similar unanticipated events.



RAPID

- **Requests may be for up to \$200K and for one year of duration**
- **The project description is expected to be brief; no more than five pages**
- **Only internal merit review is required for RAPID proposals. Under rare circumstances, Program Officers may elect to obtain external reviews. If external merit review is to be used, then the PI will be informed**



EARLY-concept Grants for Exploratory Research (EAGER)

- **The EAGER funding mechanism may be used to support exploratory work in its early stages on untested, but potentially transformative, research ideas or approaches.**
- **This work is considered especially "high risk-high payoff" because it involves radically different approaches, applies new expertise, or engages novel disciplinary or interdisciplinary perspectives.**



EAGER

- **Requests may be for up to \$300K and for two years of duration**
- **Only internal merit review is required. Under rare circumstances, Program Officers may elect to obtain external reviews. If external merit review is to be used, then the PI will be informed**
- **No-cost extensions, and requests for supplemental funding may be requested but are subject to full external merit review**



For More Information

Ask Early, Ask Often!

[nsf.gov/staff](https://www.nsf.gov/staff)

[nsf.gov/staff/orglist.jsp](https://www.nsf.gov/staff/orglist.jsp)

[nsf.gov/about/career_opps/rotators/index.jsp](https://www.nsf.gov/about/career_opps/rotators/index.jsp)