Panelists

Anjuli Bamzai
Program Director, Directorate for Geosciences; Division of Atmospheric and Geospace Sciences

Jessie DeAro
Program Officer, Directorate for Education & Human Resources; Division of Human Resource Development

Cecile Gonzalez
Science Writer-Editor, Directorate for Engineering

Thyaga Nandagopal
Program Director, Directorate for Computer & Information Science & Engineering; Division of Computer & Network Systems
Topics Covered

• 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)
• Grants for Rapid Response Research (RAPID) & EArly-concept Grants for Exploratory Research (EAGER)
• Innovation Corps (I-Corps) – Teams & Sites
• Research Experiences for Undergraduates (REU)
• Major Research Instrumentation Program (MRI)
• Facilitating Research in Undergraduate Institutions (RUI)
• Science & Technology Centers: Integrative Partnerships (STC)
Find Funding for Crosscutting Programs

Go to nsf.gov/funding/pgm_list.jsp?type=xcut
ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

• 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

Estimated Number of Awards: 20

Anticipated Funding Amount: $11 million
Graduate Research Fellowship Program (GRFP)

Contact:
GRFP Operations Center
866-NSF-GRFP; 866-673-4737
info@nsfgrfp.org

Deadlines:
- October 29: Engineering, Computer & Information Science & Engineering, Materials Research
- October 30: Math, Chemistry, Physics and Astronomy
- November 3: Social Sciences, Psychology, STEM Education & Learning
- November 4: Life Sciences, Geosciences
Graduate Research Fellowship Program (GRFP)

- Individual applications: research-based master’s and doctoral degree in STEM including STEM education
- Awards about 2,000 for FY15
- Support STEM graduate students for 3 years
- 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.
- Pending the availability of funds in 2015, it is anticipated that the stipend will increase to $34,000, as indicated in NSF's FY2015 Budget Request to Congress.
## Graduate Research Fellowship Program (GRFP)

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**REPLACES DOCUMENT(S):**
- NSF 13-584

### 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

**Application Deadline(s)** (received by 8 p.m. Eastern Standard Time):
- October 29, 2014

**Estimated Number of Awards:** 2,000

**Anticipated Funding Amount:** $333 million
Grant Opportunities for Academic Liaison with Industry (GOALI)

- 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)

**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
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
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
Innovation Corps Sites Program (I-Corps Sites)

- I-Corp Sites contact information is available at: www.nsf.gov/funding/pgm_summ.jsp?pims_id=504802&org=NSF&sel_org=XCUT&from=fund

- Deadline: June 9, 2015

- Current solicitation number: NSF 14-547
Innovation Corps Sites Program (I-Corps Sites)

• Program Goal:
  – To spur translation of research, to encourage collaboration between academia and industry, and to train students to understand innovation and entrepreneurship. NSF funding through I-Corps Sites enables academic institutions to support teams whose projects are likely candidates for commercialization.

• Purpose of Program:
  – To nurture and support multiple, local teams that are transitioning their ideas, devices, processes or other intellectual activities into the marketplace. While different institutions may choose different mechanisms for achieving the goals of an I-Corps Site, certain characteristics of a Site must be consistent - the make-up of the teams the Site supports, the origin and nature of the projects, and the kind of support that is provided to the teams by the site.
Innovation Corps Sites Program (I-Corps Sites)

Estimated number of awards: 15 awards annually, pending availability of funds

Anticipated funding amount: 1.5 million

PROGRAM SOLICITATION
NSF 14-547

REPLACES DOCUMENT(S):
NSF 12-604

Full Proposal Deadline(s) (due by 5 p.m. proposer’s local time):
June 27, 2014
June 09, 2015
Second Tuesday in June, Annually Thereafter
Innovation Corps Teams Program (I-Corps Teams)

- I-Corp Teams contact information is available at: www.nsf.gov/funding/pgm_summary.jsp?pims_id=504672&org=NSF&sel_org=XCUT&from=fund

- Submission Windows:
  - October 1, 2014 – December 15, 2014
  - January 1, 2013 - March 15, 2015
  - April 1, 2013 - June 17, 2015
  - July 1, 2013 - September 15, 2015

- Current solicitation number: 12-602
Innovation Corps Teams Program (I-Corps Teams)

• **Program Goals:**
  - To spur translation of fundamental research to the market place, to encourage collaboration between academia and industry, and to train NSF-funded faculty, students and other researchers to understand innovation and entrepreneurship.

• **Program Purpose:**
  - To identify NSF-funded researchers who will receive additional support - in the form of mentoring and funding - to accelerate the translation of knowledge derived from fundamental research into emerging products and services that can attract subsequent third-party funding.
Innovation Corps Teams Program (I-Corps Teams)

• I-Corps projects outcomes:
  – Clear go/no go decision regarding viability of products and services
  – Should the decision be to move the effort forward, a transition plan to do so
  – Technology demonstration for potential partners

• A webinar will be held on the first Tuesday of every month to answer questions about this program.

www.nsf.gov/news/special_reports/i-corps/program.jsp
Innovation Corps Teams Program (I-Corps Teams)

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**National Science Foundation**

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 Cyberinfrastructure

Submission Window Date(s) (due by 5 p.m. proposer's local time):

October 01, 2012 - December 17, 2012

Estimated number of awards: 250

Anticipated funding amount: 12.5 million
Research Experiences for Undergraduates (REU)

Contact Information: http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp

Deadlines:
- Full Proposal for REU Sites (Antarctica): May 22, 2015
- Full Proposal for REU Sites (non-Antarctica): August 26, 2015

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)

**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

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**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
Major Research Instrumentation (MRI)

- Contact Information: (703) 292-8040 mri@nsf.gov
- New Solicitation Under Development
Major Research Instrumentation (MRI)

• Program Goals:
  – Support acquisition of major state-of-the-art instrumentation
  – Foster development of the next generation of major instrumentation
  – Integrate research with education
  – Use, advance, and/or expand the Nation's cyber-infrastructure and/or high performance computing capability through instrumentation acquisition or development
  – Promote academic and private sector instrument development partnerships
Major Research Instrumentation (MRI)

The Basics:

- **Submission limit** - Three (3) per organization: *If three proposals are submitted, at least one of the proposals must be for instrument development.*

- **Request size from NSF** - $100,000-$4 million from all eligible organizations; < $100,000 exception for certain disciplines and from non-Ph.D.-granting institutions.

- **Merit Review** - At the time of submission, PIs are asked to identify an NSF division(s) to review proposal. NSF reserves the right to place proposals in the appropriate division(s) for review.
Major Research Instrumentation (MRI)

The Basics – Eligibility Information:

- “US”-based Organizations:
  - Colleges, universities, and institutions of higher education
  - Independent research museums and science centers
  - Independent nonprofit research organizations

- Consortia of eligible organizations
- Small businesses
  - Private sector partners with submitting organizations
  - May not submit as lead

The Basics – Cost Sharing:

- 2007 America COMPETES Act – Cost sharing required
- Ph.D.-granting and non-degree granting institutions: 30% cost-sharing required on all proposals
- Non-Ph.D.-granting institutions: no cost-sharing required
Major Research Instrumentation (MRI)

Estimated Number of Awards: 175

Anticipated Funding Amount: $90 million
Facilitating Research at Primarily Undergraduate Institutions: Research in Undergraduate Institutions (RUI) & Research Opportunity Awards (ROA)

- Submission deadlines vary by program
- Contact program officers for guidance
Research in Undergraduate Institutions (RUI) Research Opportunity Awards (ROA)

- RUI proposals can be a request
  - To support an individual research project or collaborative project involving RUI faculty and students at their own or other institutions;
  - Involving shared research instrumentation

- ROA include the following types
  - Supplement/rebudget request to an existing award to support ROA activities for RUI faculty;
  - New collaborative proposal between a RUI and another institution(s)
Estimated Number of Awards:
Varies across disciplinary research programs

Anticipated Funding Amount:
Varies across disciplinary research programs
Science & Technology Centers: Integrative Partnerships (STC)

- **Contact Information**
  - Dragana Brzakovic: dbrzakov@nsf.gov

- **Deadlines**
  - Preliminary Proposal: December 11, 2014
  - Full Proposal Target Date: June 16, 2015
Science & Technology Centers: Integrative Partnerships (STC)

• STCs conduct world-class research through partnerships among academic institutions, national laboratories, industrial organizations, and/or other public/private entities, and via international collaborations, as appropriate.

• Centers must undertake activities that facilitate knowledge transfer, i.e., the exchange of scientific and technical information with the objective of disseminating and utilizing knowledge broadly in multiple sectors.
Science & Technology Centers: Integrative Partnerships

- Preliminary proposals and invited full proposals may only be submitted by domestic (United States) academic institutions that are located in the United States, its territories or possessions, and have doctoral degree-granting research and education programs in any area of research supported by NSF.

- A single organization may submit a maximum of three preliminary proposals as the lead institution. Full proposals are to be submitted only when invited by NSF.
## Science & Technology Centers: Integrative Partnerships

### Estimated Number of Awards
Up to 4 awards

### Anticipated Funding
$20 million

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**National Science Foundation**
- Office of International and 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

**Preliminary Proposal Due Date(s) (required)** (due by 5 p.m. proposer’s local time):
- December 11, 2014

**Full Proposal Target Date(s):**
- June 18, 2015
For More Information

Ask Early, Ask Often!

nsf.gov/staff
nsf.gov/staff/orglist.jsp
nsf.gov/about/career_opps/rotators/index.jsp