



# Collaborative Research at NSF

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## Why collaborate?

- Accomplish more, faster
- Leverage skills, resources
- Learn new approaches
- Increase your audience, client base

# Find Funding ...



[http://www.nsf.gov/funding/pgm\\_list.jsp?type=xcut](http://www.nsf.gov/funding/pgm_list.jsp?type=xcut)

A screenshot of the NSF website's 'Find Funding' page. The page has a dark blue header with the NSF logo and tagline 'WHERE DISCOVERIES BEGIN'. Below the header is a navigation menu with tabs for 'HOME', 'FUNDING', 'AWARDS', 'DISCOVERIES', 'NEWS', 'PUBLICATIONS', 'STATISTICS', 'ABOUT NSF', and 'FASTLANE'. The 'Funding' tab is selected. The main content area is titled 'Find Funding' and includes a search bar, a 'QUICK LINKS' button, and a search button. Below the search bar is a section for 'FUNDING OPPORTUNITY SEARCH' with a 'Keyword:\*' field and a 'Search' button. To the left of the main content is a sidebar with a 'Funding' section and a 'Proposals and Awards' section. The 'Proposals and Awards' section has a dropdown menu with options: 'Proposal and Award Policies and Procedures Guide', 'Introduction', 'Proposal Preparation and Submission', 'Grant Proposal Guide', 'Grants.gov Application Guide', 'Award and Administration', and 'Award and Administration Guide'. A red arrow points to the 'Grant Proposal Guide' option with the word 'Select' written next to it.

1. Go to NSF home page

<http://www.nsf.gov>

1. Select “Funding” tab

1. Choose:

“**Search Funding Opportunities**” from drop down menu

# Some Funding Opportunities ...

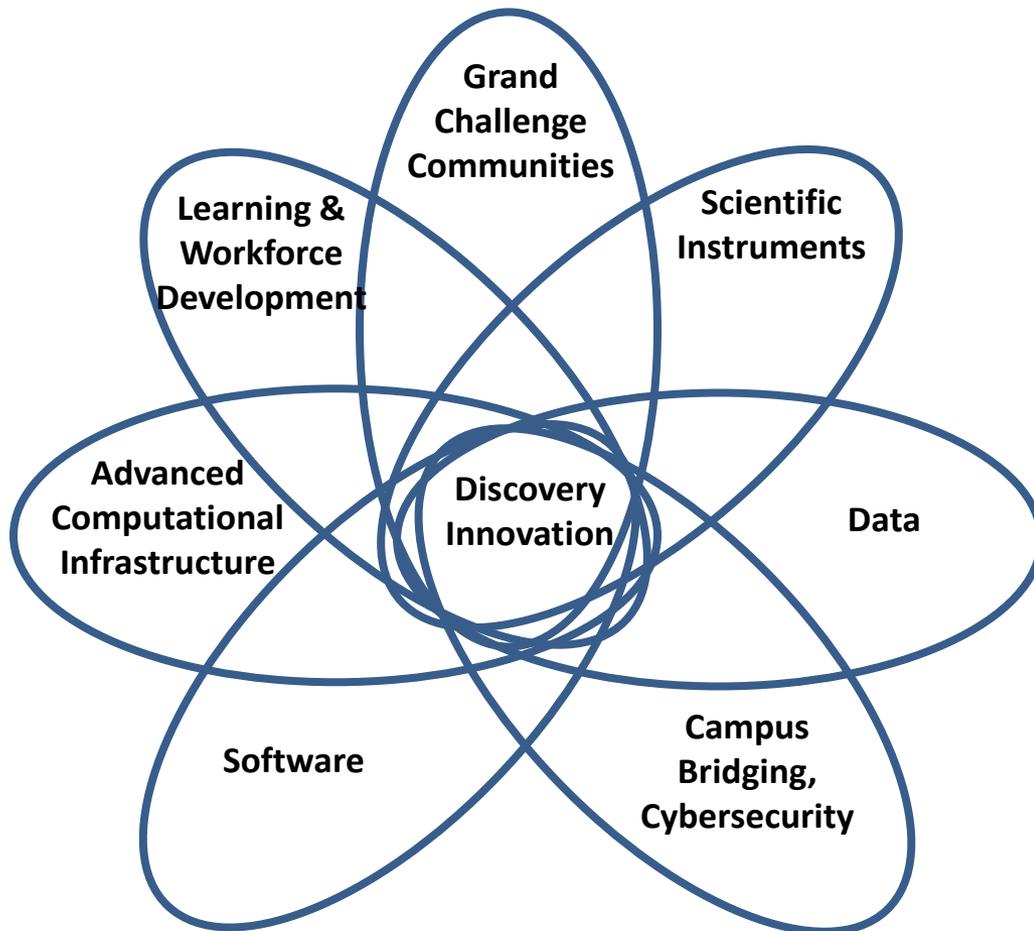
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- **CIF21** : Cyberinfrastructure Framework for the 21<sup>st</sup> Century  
<http://www.nsf.gov/cif21>
- **GOALI** : Grant Opportunities for Academic Liaison with Industry  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504699](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504699)
- **I-Corps** : Innovation Corps Program  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504672](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504672)
- **IGERT** : Integrative Graduate Education & Research Traineeship Program  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=12759](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12759)
- **MRI** : Major Research Instrumentation  
<http://www.nsf.gov/mri/>
- **REU** : Research Experiences for Undergraduates  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5517](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517)
- **RUI** : Research in Undergraduate Institutions  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5518](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518)
- **SEES** : Science, Engineering, and Education for Sustainability  
<http://www.nsf.gov/sees>

# Cyberinfrastructure Framework for the 21st Century (CIF21)

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<http://nsf.gov/cif21>

- FY 2012 budget: **\$78 million**
- FY 2013 request: **\$106 million**

# CIF-21 Background Information

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**OCI web-page:**

<http://www.nsf.gov/dir/index.jsp?org=OCI>

**Advanced Computing Infrastructure – Strategic Plan:**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf12051](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12051)

**CIF-21 task force reports:**

<http://www.nsf.gov/od/oci/taskforces/index.jsp>

**IGERT CIF-21 track:**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf12059](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12059)

**NSF/NIH BigData solicitation (NSF 12-499):**

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504767](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504767)

**Data-Intensive Data-Related Research:**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf12060](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12060)

**EarthCube:**

<http://www.nsf.gov/geo/earthcube>

# Grant Opportunities for Academic Liaison with Industry (GOALI)

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- **Promote university-industry partnerships:**
  - projects, fellowships/traineeships
  - Direct transfer of knowledge (commercialization)
- **Target high-risk/high-gain research (beyond what industry funds)**
- **Focus on:**
  - fundamental research
  - new approaches to solving generic problems
  - Innovative, collaborative educational programs
- **Anticipated funding: 60-80 awards, \$5M**
  - NSF funds go to academic institution
  - Industry partner facilitates commercialization
- **Submission to disciplinary program (not GOALI)**

# NSF Innovation Corps (I-Corps)

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- **Establish public-private partnerships**
- **Anticipated Program Outcomes**
  - Functioning network of Mentors/Advisors
  - Scientist and Engineers trained as Entrepreneurs
  - Increased impact of NSF-funded basic research
- **Projects are Team-based**
  - Entrepreneurial Lead: Post-doc or Student
  - I-Corps Mentor: Domain-relevant volunteer guide
  - PI: Researcher with current or previous award
- **Requires prior written authorization to submit a proposal**

# I-Corps

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- **Contacts:**

- Errol Arkilic: (703) 292-8095
- Rathindra DasGupta: (703) 292-8353
- Anita La Salle: (703) 292-5006

[earkilic@nsf.gov](mailto:earkilic@nsf.gov)

[rdasgupt@nsf.gov](mailto:rdasgupt@nsf.gov)

[alasalles@nsf.gov](mailto:alasalles@nsf.gov)

- **Submission Windows:**

Jan 1, 2013 – Mar 15, 2013

Apr 1, 2013 – June 17, 2013

Oct 1, 2013 – Dec 16, 2013

- **Current solicitation : NSF 12-602**

- **Anticipated Funding in FY 2013: \$18M**

- **Information webinars held on first Tuesday of each month**

# Integrative Graduate Education and Research Traineeship (IGERT)

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## Program Goals:

- Prepare graduate students for interdisciplinary research and education careers as leaders and agents for change
- innovative models for graduate education and training
- collaborative research that transcends traditional disciplinary boundaries
- **No active solicitation**  
check web site for 2013  
[igert@nsf.gov](mailto:igert@nsf.gov)

# Major Research Instrumentation (MRI)

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*Shared use of major, modern, state-of-the-art instrumentation*

Track 1: ACQUIRE

Track 2: DEVELOP

Integrate research with education

- Colleges, universities, institutions of higher education
- Independent research museums and science centers
- Independent nonprofit research organizations
- Consortia of eligible organizations
- Small businesses (partner with submitting organizations)

# MRI

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- **Limit:** 3 submissions per organization
- **Identify NSF division(s) to review proposal**
- **Cost Sharing:**
  - Ph.D. granting and non-degree granting institutions: 30%
  - Non-Ph.D. granting higher education institutions: 0%
- **Info:** Randy Phelps : [mri@nsf.gov](mailto:mri@nsf.gov) NSF 13-517
- **Deadlines:**
  - February 21, 2013
  - January 23, 2014
- **Anticipated funding:** \$90M

# Research Experiences for Undergraduates (REU)

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## REU Sites

- Engage group of undergraduates in research
- Students who might not otherwise have opportunity
- Students from outside host institution
- Cohort experience; coherent intellectual theme
- Single discipline or interdisciplinary

## REU Supplement

- 1-2 undergraduates participate in new or ongoing NSF project
- number of students commensurate to size and nature of project
- Faculty/researcher mentors
- Access to facilities and professional development opportunities

**(REU)**

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## **Partnership opportunities:**

- Dept. of Defense, Dept. of Energy
- Cyberinfrastructure
- International Projects
- Research experiences for Teachers

## **Deadlines (12-569):**

- Sites: August 28, 2013
- Antarctic Sites: May 24, 2013
- Supplements: contact discipline Program Officer

**Anticipated Funding:** 1,750-1,800 awards (180 sites) for **\$68M**

# Research in Undergraduate Institutions (RUI)

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**Support:** faculty at primarily undergraduate institutions (PUIs):

- 1) individual and collaborative research projects
  - 2) purchase of shared-use research instrumentation
  - 3) Research Opportunity Awards (ROA) for work with NSF-supported investigators at other institutions
- Support undergraduate involvement in high quality research
  - Strengthen research environment at PUIs
  - Promote integration of research and education at PUIs

Contact NSF program officers in discipline!

[NSF 00-144](#)

**PUIs:** Institutions that award 10 or fewer Ph.D. or D.Sc. per year

# Science, Engineering, and Education for Sustainability (SEES)

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**Mission:** *advance science, engineering, & education to inform the societal actions needed for environmental & economic sustainability & sustainable human well-being*

- Interdisciplinary research and education
- Systems thinking
- Partnerships and networks
- New participants
- Workforce and education

... All towards global sustainability

[nsf-sees-info@nsf.gov](mailto:nsf-sees-info@nsf.gov)

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

# SEES – New Opportunities

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[Small Business Technology Transfer Program Phase I \(STTR\)](#) (NSF 13-501)

LOI: **January 8, 2013** (required); Full Proposals: **February 6, 2013**

[Cyber-Enabled Sustainability Science and Engineering \(Cyber-SEES\)](#) (NSF 13-500)

LOI: **12/4/2012** (required); Full Proposals: **February 5, 2013**

[Interdisciplinary Research in Hazards and Disasters \(Hazards SEES\)](#) (NSF 12-610)

Full Proposals: **February 4, 2013**

[Science, Engineering and Education for Sustainability Fellows \(SEES Fellows\)](#) (NSF 12-601)

Deadline: **November 21, 2013**; Annually thereafter

[Coastal SEES](#) (NSF 12-594)

Full Proposals: **January 17, 2013**

RCN – SEES track (NSF 11-531)

CNH – SEES track (NSF 10-612)

Climate-related (CRI) competitions continue

**Check the SEES site often for updates and new deadlines**



**Thank You**