



NSF Grants Conference Crosscutting Programs

March 19-20, 2012

**Hosted by: Loyola University Chicago & Northwestern University •
Evanston, IL**



Panelists

Kelly Moore

Program Officer, Directorate for Social, Behavioral & Economic Sciences, Division of Social & Economic Sciences

Kathryn Sullivan

Senior Advisor, Office of the Director, Office of Integrative Activities

Grace Wang

Division Director; Directorate for Engineering, Division of Industrial Innovation & Partnerships

Valerie Wilson

Deputy Division Director, Directorate for Education & Human Resources, Division of Graduate Education



Topics Covered

- ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers
- Ethics Education in Science and Engineering (EASE)
- Innovation Corps Program (I-Corps)
- Integrative Graduate Education & Research Traineeship Program (IGERT)
- Grant Opportunities for Academic Liaison with Industry (GOALI)
- Major Research Instrumentation (MRI)
- Research Coordination Networks (RCN)
- Research Experiences for Undergraduates (REU)
- Research in Undergraduate Institutions (RUI)
- Science, Engineering and Education for Sustainability NSF-Wide Investment (SEES)
- Sustainability Research Networks Competition (SRN)



Find Funding for Crosscutting Programs

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

The screenshot shows the NSF website's funding page. At the top, there is a search bar with 'NSF Web Site' entered. Below the search bar is a navigation menu with links for HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. The main content area is titled 'Crosscutting and NSF-wide Active Funding Opportunities'. It includes a paragraph explaining that the site provides program information for activities sponsored by more than one NSF organization. Below the text are filters for 'Org:' (Crosscutting and NSF-wide) and 'Status:' (Active). There is also a checkbox for 'Get Crosscutting Program Annncmts & Info Updates by Email' and an RSS icon. The page is sorted by Title. A table at the bottom lists funding opportunities, with one entry for 'Academic Research Infrastructure Program: Recovery and Reinvestment (ARI-R²)' with a program number of 09-562.

Funding

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](#) |

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	

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](#)



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

Funding

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

CONTACTS

Name	Email	Phone	Room
Kelly Mack	kmack@nsf.gov	(703) 292-8575	815
Amy Rogers	arogers@nsf.gov	(703) 292-5178	815
Patricia Simms	psimms@nsf.gov	(703)292-7869	815
J.T. Clark	jtclark@nsf.gov	(703) 292-8219	815

PROGRAM GUIDELINES

Solicitation [10-593](#)

DUE DATES

Letter of Intent Deadline Date: October 3, 2011
Institutional Transformation (IT) and Institutional Transformation Catalyst (IT-Catalyst)

Full Proposal Deadline Date: November 7, 2011
Institutional Transformation (IT) and Institutional Transformation Catalyst (IT-Catalyst)

- Contact:
 - Kelly Mack: (703) 292-8575; kmack@nsf.gov
 - Amy Rogers: (703) 292-5178; arogers@nsf.gov
 - Patricia Simms: (703) 292-7869; psimms@nsf.gov
 - J.T. Clark: (703) 292-8219; jtclark@nsf.gov
- Deadline:
 - For full proposal: November 7, 2011 (IT & IT-Catalyst)
- Current solicitation number: 10-593



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 2011-2012
 - 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.
- Eligibility Information: Proposers may submit only one Institutional Transformation proposal or one IT-Catalyst proposal. There is no limit to the number of PAID proposals that can be submitted.



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

PROGRAM SOLICITATION

NSF 10-593

REPLACES DOCUMENT(S):

NSF 09-504



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

Estimated Number of Awards: 23

Anticipated Funding Amount: \$12.2 million



Integrative Graduate Education and Research Traineeship (IGERT)

The screenshot shows the NSF website interface. At the top left is the NSF logo and the text 'National Science Foundation WHERE DISCOVERIES BEGIN'. A search bar and a dropdown menu for 'NSF Web Site' are at the top right. A navigation menu includes 'Home', 'Funding', 'Awards', 'Discoveries', 'News', 'Publications', 'Statistics', 'About', and 'FastLane'. The 'Funding' section is active, showing a 'Funding' sidebar with links like 'Find Funding', 'A-Z Index of Funding Opportunities', and 'Recent Funding Opportunities'. The main content area features the title 'Integrative Graduate Education and Research Traineeship Program (IGERT)' with a 'CONTACTS' table listing four members: Melur K. Ramasubramanian, Carol F. Stoel, Richard Boone, and David Pietrocola, each with their email and phone number. Below the table are sections for 'PROGRAM GUIDELINES' and 'DUE DATES', which specify a Letter of Intent deadline of May 1, 2012, and a Full Proposal deadline of July 2, 2012.

- Coordinating Committee members are listed at: <http://www.nsf.gov/crssprgm/igert/cc.jsp>
- Deadlines:
 - Letter of Intent: May 1, 2012
 - Full proposal: July 2, 2012
- Current solicitation number: 11-533



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 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 11-533

REPLACES DOCUMENT(S):

NSF 10-523



National Science Foundation

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Office of Cyberinfrastructure

Directorate for Education & Human Resources

Directorate for Engineering

Directorate for Geosciences

Office of Integrative Activities

Office of International Science and Engineering

Directorate for Mathematical & Physical Sciences

Office of Polar Programs

Directorate for Social, Behavioral & Economic Sciences

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

May 02, 2011

May 01, 2012

**Estimated Number
of Awards: 18**

**Anticipated
Funding Amount:
\$13.5 million**



Integrative Graduate Education and Research Traineeship (IGERT)

- Eligibility Information:
 - Academic institutions in the U.S., its territories, or possessions that grant the Ph.D. degree in the sciences and engineering may submit proposals. The lead institution must grant the Ph.D. degree in at least one of the STEM fields supported by NSF and at least one Ph.D. granting unit should participate in the IGERT. Non-Ph.D. granting institutions, nonacademic, and international organizations may serve as collaborating organizations.
 - The PI must be on the faculty of the submitting institution.
 - There is a limit of one proposal that may be submitted by an institution either as a single institution or as a lead institution in a multi-institution proposal.
 - Any given individual may participate as PI or co-PI in only one proposal submission. A PI or co-PI on one proposal may serve as a faculty participant on other proposals.



Research Experiences for Undergraduates (REU)

The screenshot shows the NSF website interface. At the top left is the NSF logo and the tagline 'WHERE DISCOVERIES BEGIN'. A search bar and 'NSF Web Site' dropdown are at the top right. A blue navigation bar contains links for 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. The sidebar on the left contains various funding-related links.

- Contact Information: http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp
- Deadlines:
 - Full proposal for REU Sites (non-Antarctic):
 - August 22, 2012
 - Full proposal for REU Sites (Antarctic):
 - June 1, 2012
 - 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)

National Science Foundation
WHERE DISCOVERIES BEGIN

SEARCH
NSF Web Site

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

Funding

Find Funding
A-Z Index of Funding Opportunities
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Interdisciplinary Research
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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

Crosscutting/NSF-wide
Research in Undergraduate Institutions (RUI)

CONTACTS

Name	Dir/Div	Name	Dir/Div
Robert (Scott) Fisher	MPS/AST	Henry N. Blount	OIA/EPSCoR
Harriet G. Taylor	CISE/CNS	Richard J. Fragaszy	ENG/EFRI
Jill L. Karsten	GEO/DAD	Michael Mishkind	BIO/IOS
Julie M. Palais	OD/OPP		

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.



Ethics Education in Science & Engineering (EESE)

Funding

Find Funding

- [A-Z Index of Funding Opportunities](#)
- [Recent Funding Opportunities](#)
- [Upcoming Due Dates](#)
- [Advanced Funding Search](#)
- [Interdisciplinary Research](#)
- [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](#)

SEARCH

NSF Web Site

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

Email Print Share

[Crosscutting](#)

Ethics Education in Science and Engineering (EESE)

CONTACTS

Name	Dir/Div	Name	Dir/Div
Kelly Joyce	SBE/SES	Myles Boylan	EHR/DUE
Tom Canuthers	MPS/PHY	Ephraim Glinert	CISE/IIS
Jill Karsten	GEO/OAD	Susan C. Kemnitzer	ENG/EEC
Carter Kimsey	BIO/DBI	Marshall M. Lih	ENG/CBET
Yanessa Richardson	OD/OISE	Carol F. Stoel	EHR/DGE

PROGRAM GUIDELINES

Solicitation [11-514](#)

DUE DATES

Full Proposal Deadline Date: March 14, 2011

SYNOPSIS

The Ethics Education in Science and Engineering (EESE) program funds research and educational projects that improve ethics education in all fields of science and

- Contact disciplines for deadlines and contact information.

- Deadlines: March 1, 2012 & March 1, 2013

- Current solicitation number: 11-514



Ethics Education in Science & Engineering (EERE)

- Program Goal:
 - To fund research and educational projects that improve ethics education in all fields of science and engineering that NSF supports, with priority consideration given to interdisciplinary, inter-institutional, and international contexts.
- Eligibility Information:
 - Only colleges and universities located and accredited in the U.S. or U.S.-based professional associations are eligible to apply to this program.
 - NSF expects project teams to include persons with appropriate expertise.
 - An eligible organization may submit only one proposal as the lead organization.



Ethics Education in Science & Engineering (EESE)

Ethics Education in Science and Engineering (EESE)

PROGRAM SOLICITATION
NSF 11-514

REPLACES DOCUMENT(S):
NSF 08-530



National Science Foundation

Directorate for Social, Behavioral & Economic Sciences

Division of Social and Economic Sciences

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

Office of International Science and Engineering

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

March 14, 2011

**Estimated Number
of Awards: 6 to 10**

**Anticipated
Funding Amount:
\$3 million**



Research Coordination Networks (RCN)

NSF-wide

Research Coordination Networks (RCN) (RCN)

Proposal Classification Form - RCN UBE Tracks

Proposers wishing to submit to targeted tracks RCN-UBE should select "Research Coordination Networks program" on the FastLane Cover Sheet under Programs; no Division should be selected. Once that is done you will see a warning "This program is associated with only one division.". That is correct and you should select the "go back" button to complete the rest of your coversheet information or some other required form. Once you have selected DBI - Research Coordination Networks as the unit of consideration, a new form "Proposal Classification" will appear in the Form Preparation selector page. Except for Category I (which applies to all), if you are in a field of science other than Biology and you feel questions do not apply to your proposal, select "none of the above" or similar response for sections that are not applicable.

CONTACTS

RCN Contacts available at http://www.nsf.gov/bio/ef/rcn_sees_contacts_2011.htm

PROGRAM GUIDELINES

Solicitation [11-531](#)

DUE DATES

Full Proposal Accepted Anytime
General (non-targeted) RCN proposals should be submitted to a participating program in BIO, GEO, SBE, OCI or OPP. Refer to the specific program website for submission dates. PIs are encouraged to discuss suitability of an RCN topic with the program.

Full Proposal Deadline Date: February 3, 2012
RCN SEES Track

Full Proposal Deadline Date: June 15, 2012
RCN UBE and UBE Incubator Track

- RCN contact information is available at: http://www.nsf.gov/bio/ef/rcn_sees_contacts_2011.htm
- Deadlines:
 - For general (non-targeted) RCN: Contact individual program for due dates
 - For targeted tracks:
 - RCN SEES: Feb 3, 2012
 - RCN UBE and UBE Incubator: June 15, 2012
- Current solicitation number: 11-531



Research Coordination Networks (RCN)

- Program Goals:
 - To advance a field or create new directions in research or education; innovative ideas for implementing novel networking strategies are especially encouraged.
 - To communicate and coordinate groups of investigators in their research, training, and educational activities across disciplinary, organizational, geographic, and international boundaries.



Research Coordination Networks (RCN)

- Additional targeted tracks within the RCN programs are intended to foster linkages across selected directorates:
 - Science, Engineering, and Education for Sustainability (RCN-SEES): Focuses on interdisciplinary topics that will advance sustainability science, engineering and education as an integrative approach to the challenges of adapting to environmental, social and cultural changes associated with growth and development of human populations, and attaining a sustainable energy future.
 - Undergraduate Biology Education (RCN-UBE): Focuses on any topic likely to lead to improved participation, learning, or assessment in undergraduate biology curricula.



Research Coordination Networks (RCN)

Research Coordination Networks (RCN)

PROGRAM SOLICITATION

NSF 11-531

REPLACES DOCUMENT(S):

NSF 10-566



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):

May 24, 2011

RCN SEES Track

June 15, 2011

RCN UBE and UBE Incubator Track

February 03, 2012

Estimated Number of Awards: 15 to 25

**Anticipated Funding Amount:
\$7,500,000 to \$17,500,000
(pending availability of funding)**



Research Coordination Networks (RCN)

- Eligibility Information:
 - Proposals may only be submitted by the following:
 - Non-profit, non-academic organizations (e.g., independent museums, observatories, research labs, professional societies) in the U.S. associated with educational or research activities.
 - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the U.S., acting on behalf of their faculty members.



Sustainability Research Networks Competition (SRN)

Funding

Sustainability Research Networks Competition (SRN)

CONTACTS

Name	Div/Div	Name	Div/Div
Sarah L. Ruth	GEO/AGS	Bruce K. Hamilton	ENG/EFRI
Alan J. Tessier	BIO/DEB	Krishna Kant	CISE/CNS
Alphonse T. DeSena	EHR/DRL	Henry A. Warchall	MPS/DMS
David McGinnis	SRE/BCS	Carleen F. Maitland	OD/OISE
Anna M. Keritula de Echave	OD/OPP		

Questions regarding the Sustainability Research Network solicitation should be sent to SRN@NSF.GOV.

PROGRAM GUIDELINES

Solicitation [11-574](#)

DUE DATES

Preliminary Proposal Deadline Date: December 1, 2011

Full Proposal Deadline Date: April 1, 2012

SYNOPSIS

Sustainability Research Networks will engage and explore fundamental theoretical issues and empirical questions in sustainability science, engineering, and education that will increase our understanding of the ultimate sustainability challenge - maintaining and improving the quality of life for the nation within a healthy Earth system. The goal of the

- Preliminary Proposal Deadline: December 1, 2011
- Full Proposal Deadline: April 1, 2012
- Current solicitation number: 11-574



Sustainability Research Networks Competition (SRN)

- Supports the development and coalescence of integrated research enterprises that will achieve trans-disciplinary knowledge built around pressing societal needs in sustainability.
- Research will cross the boundaries of climate, energy, and environmental sciences, as well as physical and computational sciences, social and behavioral sciences, and educational sciences.
- The fundamental goal of this research is to inform societal actions for future environmental, economic, social and cultural sustainability.



Sustainability Research Networks Competition (SRN)

Sustainability Research Networks Competition (SRN)

PROGRAM SOLICITATION

NSF 11-574



National Science Foundation

Directorate for Engineering

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Education & Human Resources

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of International Science and Engineering

Office of Polar Programs

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

December 01, 2011

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

April 01, 2012

Estimated Number of Awards: 3 to 4

Anticipated Funding Amount: \$36 million

SRN awards are expected to be 4 to 5 years in duration and budgets may not exceed \$12 million total per award



Science, Engineering and Education for Sustainability (SEES)

The screenshot shows the NSF ERE website page for SEES. The top navigation bar includes links for HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. The main header features the NSF logo, the text 'National Science Foundation Environmental Research & Education (ERE)', and a search box. Below the header is a secondary navigation bar with links for ERE Home, ERE Funding, ERE Awards, ERE Discoveries, ERE News, and About ERE. The main content area is titled 'Science, Engineering and Education for Sustainability (SEES) NSF-Wide Investment'. It contains a paragraph describing the SEES investment area, a sidebar with 'SEES News & Updates' and links to 'SEES News Releases', 'SEES FY 2011 Activities', 'SEES FY 2010 Activities', and 'SEES Portfolio & Highlights', and a circular image at the bottom right. A left sidebar contains a navigation menu with links for ERE Home, About ERE, Funding Opportunities, Awards, News, Events, Discoveries, Publications, Advisory Committee, See Additional ERE Resources, View ERE Staff, Search ERE Staff, 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, and Award Conditions.

- Contact Information:
 - (703) 292-8710
 - jrobin@nsf.gov
- Dear Colleague Letters: 10-040 & 11-022
- FAQs: 11-039
- 5-year investment area: new and existing activities

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



Science, Engineering and Education for Sustainability (SEES)

Program Goals:

- To address challenges in climate and energy research and education using a systems-based approach to understanding, predicting, and reacting to change in the linked natural, social, and built environment.
- To support research that facilitates global community sustainability, specifically through building connections between current projects, creating new nodes of activity, and developing personnel needed to solve sustainability issues.
- To contribute to sustainable energy research in science and engineering, and its socioeconomic and environmental implications.



Science, Engineering and Education for Sustainability (SEES)

FY10: (Dear Colleague Letter - NSF 10-040)

- Water Sustainability and Climate (WSC) (NSF 10-524)
- Ocean Acidification (OA) (NSF 10-530)
- Climate Change Education Partnership (CCEP) (NSF 10-542)
- Decadal and Regional Climate Prediction Using Earth System Models (EaSM) (NSF 10-554)
- Dimensions of Biodiversity (NSF 10-548)

FY11: (Dear Colleague Letter - NSF 11-022)

sustainable energy: novel energy storage; ecosystem impacts of energy technologies; improving the efficiency and yield of energy systems; novel energy sources, e.g. biofuels, ocean/kinetic power; energy-intelligent performance in computer and network systems; energy efficiency in manufacturing and materials.

climate change: interactions between the climate, human and natural systems; feedbacks in the climate and carbon cycles; impacts of ice-sheet dynamics on climate and sea level rise; regional climate variation and causes; risk-based approaches to decision-making; adaptive and mitigating strategies; effects of behavioral changes on energy consumption and climate.



SEES – Recent funding opportunities

[Sustainable Energy Pathways](#) (NSF 11-590)

Deadline: February 1, 2012

[Sustainability Research Networks](#) (NSF 11-574)

Preliminary Proposal Deadline: December 1, 2011

Full Proposal Deadline: April 1, 2012

[Science, Engineering and Education for Sustainability Fellows \(SEES Fellows\)](#) (NSF 11-575)

Deadline: December 5, 2011

[Water, Sustainability and Climate](#) (NSF 11-551)

Deadline: October 19, 2011

[Dynamics of Coupled Natural and Human Systems](#) (NSF 11-612)

Deadline: November 15, 2011

[Partnerships for International Research and Education \(PIRE\)](#) (NSF 11-025 & 11-564)

Preliminary Proposal Deadline: October 19, 2011

Full Proposal Deadline: May 15, 2012

[Research Coordination Networks \(RCN\)](#) (NSF 11-531)

Deadlines (SEES Track): May 24, 2011; February 3, 2012

+ [Dimensions of Biodiversity](#) (NSF 11-518), [Ocean Acidification](#) (NSF 10-530), [Climate Change Education Partnerships](#) (NSF 10-542), [Regional & Decadal Earth System Modeling](#) (NSF 10-554)



SEES – FY 2012

- Sustainability Research Networks
- SEES Fellows
- Sustainable Energy Pathways
- PIRE – SEES projects
- RCN – SEES track
- CNH – SEES projects
- Climate-related competitions continue



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 5
Morris L. Aizenman	maizenma@nsf.gov	(703) 292-8807	
William S. Bainbridge	wbainbri@nsf.gov	(703) 292-8930	
John Cherniavsky	ichernia@nsf.gov	(703) 292-5136	8555
Leonard E. Johnson	lejohnso@nsf.gov	(703) 292-8559	
Graham M. Harrison	gharrison@nsf.gov	(703) 292-7252	
Jacqueline Meszaros	jmeszaro@nsf.gov	(703) 292-7261	980.12
Diane Jofuku Okamura	dokamuro@nsf.gov	(703) 292-4400	
Sonia Ortega	sorteqa@nsf.gov	(703) 292-8697	

PROGRAM GUIDELINES

Solicitation [10-580](#)

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.

- Contact disciplines for deadlines and contact information.
- Current solicitation number: 10-580



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

NSF 10-580

REPLACES DOCUMENT(S):

NSF 09-516



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):

Due Dates Vary by Program

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

Estimated Number of Awards: 60 to 80

Anticipated Funding Amount: \$5 million from all participating directorates



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.



Innovation Corps Program (I-Corps)

The screenshot shows the NSF website's 'Innovation Corps Program (I-Corps)' page. The top navigation bar includes 'Home', 'Funding', 'Awards', 'Discoveries', 'News', 'Publications', 'Statistics', and 'About'. The 'Funding' sidebar on the left lists various options like 'Find Funding', 'A-Z Index of Funding Opportunities', and 'Recent Funding Opportunities'. The main content area features a 'Crosscutting' link, the 'Innovation Corps Program (I-Corps)' title, a 'CONTACTS' table listing staff members (Errol Arkilic, Rathindra DasGupta, Richard Voyles), 'PROGRAM GUIDELINES', and 'DUE DATES' for various proposal windows.

Name	Dir/Div	Name	Dir/Div
Errol Arkilic		Rathindra DasGupta	
Richard Voyles			

PROGRAM GUIDELINES
Solicitation [11-560](#)

DUE DATES

- Full Proposal Window: October 1, 2011 - December 15, 2011
October 1 - December 15, Annually Thereafter
- Full Proposal Window: January 1, 2012 - March 15, 2012
January 1 - March 15, Annually Thereafter
- Full Proposal Window: April 1, 2012 - June 15, 2012
April 1 - June 15, Annually Thereafter
- Full Proposal Window: July 1, 2012 - September 15, 2012
July 1 - September 15, Annually Thereafter
- Full Proposal Window: October 1, 2012 - December 15, 2012
October 1 - December 15, Annually Thereafter

PI(s) must contact one of the cognizant I-Corps program officers and receive written authorization to submit a proposal. PI(s) are strongly encouraged to demonstrate commercial readiness of their effort with a Topic-specific program officer p...

- Contact:
 - Errol Arkilic: (703) 292-8095; earkilic@nsf.gov
 - Rathindra DasGupta: (703) 292-8353; rdasgupt@nsf.gov
- Submission Windows:
 - Apr 1, 2012 – June 15, 2012
 - July 1, 2012 – Sep 15, 2012
 - Oct 1, 2012 – Dec 15, 2012
 - Jan 1, 2013 – Mar 15, 2013
- Current solicitation number: 11-560
- Estimated Number of Awards: 150 in FY 2012
- Anticipated Funding Amount in FY 2012: \$7M

Informational Webinars held on the first Tuesday of every month



Innovation Corps Program (I-Corps)

- Establishes a public-private partnership to support the translation of NSF research into the development of technologies, products, and processes.
- Aims to help create a national network of scientists, engineers, innovators, business leaders and entrepreneurs building on existing NSF grantee events.
- **Projects are Team-based**
 - Entrepreneurial Lead: Post-doc or Student to move it forward
 - I-Corps Mentor: Domain-relevant volunteer guide
 - PI: Researcher with current or previous award
- **Anticipated Program Outcomes**
 - Functioning network of Mentors/Advisors
 - Scientist and Engineers trained as Entrepreneurs
 - Increased impact of NSF-funded basic research



- Eligibility Information:
 - PI(s) *must* contact one of the cognizant I-Corps program officers and receive **prior written authorization to submit** a proposal.
 - Proposers must have an active NSF award or one that has been active within the previous five years from the date of submission of the I-Corps proposal in a science or engineering field relevant to the proposed innovation.
 - A PI is limited to one I-Corps proposal during each submission window.
 - Proposals may only be submitted by:
 - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the U.S., acting on behalf of their faculty members.
 - Other Federal Agencies and Federally Funded Research and Development Centers (FFRDCs): Contact the appropriate program before preparing a proposal for submission.



Innovation Corps Program (I-Corps)

- 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
- I-Corps webinars are held on the first Tuesday of every month.



Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE)

Goals:

- *Demonstrate that NSF is open to unusually novel cross-disciplinary ideas:* Welcome groundbreaking or unconventional ideas and approaches, and unusually novel, creative interdisciplinary proposals
- *Encourage Program Directors to promote such ideas:* Empower PDs with flexibility and new resources and mechanisms to enable cross-cutting collaboration and risk-taking in developing their awards portfolio

FY 2012 budget: \$20 million

FY 2013 request: \$63 million

First pilot INSPIRE activity for 2012-13: Creative Research Awards for Transformative Interdisciplinary Ventures (CREATIV)

Second pilot under development for 2013: Larger projects



Home Funding Awards Discoveries News Publications Statistics About FastLane

National Science Foundation
Office of Integrative Activities (OIA)

NSF Web Site

OIA Home OIA Funding OIA Awards OIA Discoveries OIA News About OIA

Office of Integrative Activities (OIA)

CREATIV

CREATIV (Creative Research Awards for Transformative Interdisciplinary Ventures): a pilot grant mechanism under the Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE) initiative, to support bold interdisciplinary projects in all NSF-supported areas of science, engineering, and education research.

Note to all prospective CREATIV principal investigators: Before writing or submitting a CREATIV proposal, PIs must obtain written authorizations by at least two NSF program directors from intellectually distinct divisions or programs. To begin the process of contacting program directors, the PI is encouraged to submit the [CREATIV Inquiry Data Form](#). To identify program directors to list on this form, some keyword searching of the NSF web site may be helpful in finding appropriate NSF divisions and programs, for example by using the "Search Funding Opportunities" box in the left-hand column of the [home page](#), or the "Search Award For" box in the [Award Search](#) database. Another potential resource is the NSF Interdisciplinary Research web site, http://www.nsf.gov/od/oia/additional_resources/interdisciplinary_research/, where the [Contact Options](#) page suggests various approaches, and the [Points of Contact](#) page lists people who can be helpful at the directorate level.

DEAR COLLEAGUE LETTER: [NSF 12-011](#) posted November 8, 2011.

FREQUENTLY ASKED QUESTIONS: [NSF 12-012](#)

WEBCAST: On November 9, 2011, NSF Director Subra Suresh and the co-chairs of the NSF INSPIRE Working Group presented a live webcast about the new CREATIV grant mechanism. The co-chairs answered questions submitted by the audience. The archived webcast can be viewed at <http://www.tvworldwide.com/events/nsf/111109/>.

CREATIV Inquiry Data Form: To initiate the process of a potential CREATIV submission, start [here](#).

[CREATIV Inquiry Data Form](#)

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Programs and Activities

- Dear Colleague Letter NSF 12-011, www.nsf.gov/creativ

- In a nutshell:
 - Only internal merit review is required
 - Proposals **must** be **interdisciplinary and potentially transformative**
 - Maximum award size: **\$1,000,000**
 - Maximum award duration: **5 years**
- To begin process, PI submits inquiry form



CREATIV

Goals of this pilot funding mechanism:

- Attract unusually creative high-risk / high-reward interdisciplinary proposals, including ones that PIs may have been reluctant to submit to a standard review process
- Provide substantial funding, not limited to the exploratory stage
- Be open to all NSF-supported areas of science, engineering, and education research – no favored topics

CREATIV is *not* for proposals that are more appropriate for existing mechanisms:

- Primarily advance a single discipline, or
- Can be expected to receive an appropriate evaluation through external review in regular programs, or
- Continue a well-established line of research, leading to the next expected step

Through inquiry process, PI must have at least 2 program directors' authorizations in advance in order to submit a proposal



Major Research Instrumentation (MRI)

Funding

- Find Funding
- A-Z Index of Funding Opportunities
- Recent Funding Opportunities
- Upcoming Due Dates
- Advanced Funding Search
- Interdisciplinary Research
- 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

NSF-wide

Major Research Instrumentation Program

MRI ANNOUNCEMENTS

FREQUENTLY ASKED QUESTIONS POSTED

FAQs have been added for MRI Solicitation 11-503. To view the FAQs page click [here](#).

CONTACTS

Name	Email	Phone	Room
Dr. Randy L. Phelps	mri@nsf.gov	(703) 292-8040	

Additional contact information for NSF's Major Research Instrumentation Program is as follows:

Office of Integrative Activities
 Major Research Instrumentation Program
 National Science Foundation, Room 935
 4201 Wilson Boulevard
 Arlington, VA 22230
 (703) 292-8040

E-Mail: mri@nsf.gov

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

PROGRAM GUIDELINES

Solicitation [11-503](#)

SYNOPSIS

The Major Research Instrumentation Program (MRI) serves to increase access to shared

- **Contact Information:**
 - (703) 292-8040
 - mri@nsf.gov
- **New solicitation expected with anticipated January 24, 2013 deadline**
- **Webcast planned for December 2012**
- **Monitor MRI website for further details**



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)

Major Research Instrumentation Program:

Instrument Acquisition or Development

PROGRAM SOLICITATION

NSF 11-503

REPLACES DOCUMENT(S):

NSF 10-529



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 Polar Programs

Office of Cyberinfrastructure

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

January 27, 2011

4th Thursday in January thereafter

**Number of Proposals
Received for FY 2011: 876**

**Number of FY 2011
Awards: 175**

Success Rate: 21.8%

**Requested Funding in
FY 2013: \$90 million**

**Co-Managed by OIA &
Program Directorates/
Offices**



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, PI's 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



ADVANCE - Program Page:

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

Recent, Active Awards:

<http://www.nsf.gov/awardsearch/progSearch.do?SearchType=progSearch&page=2&QueryText=&ProgOrganization=&ProgOfficer=&ProgEleCode=&BooleanElement=false&ProgRefCode=&BooleanRef=false&ProgProgram=A%2CADVANCE+--+FELLOWS%2CADVANCE+--+INSTITUTIONAL+TRANSF%2CADVANCE+--+INSTITUTIONAL+TRANSF%2CADVANCE+--+IT-START%2CADVANCE+--+LEADERSHIP%2CADVANCE-PAID&ProgFoaCode=&Restriction=2&Search=Search#results>

EESE - Programs Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13338

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=13338&SearchType=progSearch&page=2&QueryText=&ProgOrganization=&ProgOfficer=&ProgEleCode=&BooleanElement=false&ProgRefCode=&BooleanRef=false&ProgProgram=ETHICS+EDU+FOR+SCI+%26+ENG+PROG&ProgFoaCode=&Restriction=2&Search=Search#results

GOALI - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13706

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=13706&SearchType=progSearch&page=ProgEleCode=1504#results

I-Corps - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504672

Recent, Active Awards: Not yet available



IGERT - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12759

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=12759&SearchType=progSearch&page=2&QueryText=&ProgOrganization=&ProgOfficer=&ProgEleCode=1328,1335&BooleanElement=true&ProgRefCode=&BooleanRef=true&ProgProgram=&ProgFoaCode=&RestrictActive=on&Search=Search#results

INSPIRE – Program Page: <http://www.nsf.gov/creativ>

MRI - Program Page: <http://www.nsf.gov/od/oia/programs/mri/>

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=5260&SearchType=progSearch&page=2&QueryText=&ProgOrganization=&ProgOfficer=&ProgEleCode=1189&BooleanElement=true&ProgRefCode=&BooleanRef=true&ProgProgram=&ProgFoaCode=&RestrictActive=on&Search=Search#results

RCN - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11691

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=11691&RestrictActive=on&d-30996-s=0&d-30996-xo=ascending&d-30996-xs=0&ProgFoaCode=&QueryText=&Search=Search&ProgEleCode=&d-30996-p=1&BooleanElement=true&ProgOfficer=&SearchType=progSearch&ProgOrganization=&BooleanRef=true&page=2&ProgRefCode=1664&ProgProgram=&d-30996-o=1#results



REU - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=5517&SearchType=progSearch&page=2&QueryText=REU+Site&RestrictTitle=on&ProgOrganization=&ProgOfficer=&ProgEleCode=&BooleanElement=true&ProgRefCode=9250&BooleanRef=true&ProgProgram=&ProgFoaCode=&Restriction=2&Search=Search#results

RUI - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518

Recent, Active Awards:

http://www.nsf.gov/awardsearch/progSearch.do?WT.si_n=ClickedAbstractsRecentAwards&WT.si_x=1&WT.si_cs=1&WT.z_pims_id=5518&SearchType=progSearch&page=2&QueryText=&ProgOrganization=&ProgOfficer=&ProgEleCode=&BooleanElement=true&ProgRefCode=9229%2C9141&BooleanRef=true&RestrictActive=on&Search=Search#results

SEES – Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504707

Recent, Active Awards:

<http://www.nsf.gov/awardsearch/progSearch.do?SearchType=progSearch&page=2&QueryText=&ProgOrganization=&ProgOfficer=&ProgEleCode=&BooleanElement=false&ProgRefCode=&BooleanRef=false&ProgProgram=SEES&ProgFoaCode=&Restriction=2&Search=Search#results>

SRN - Program Page: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503645

Recent, Active Awards: Not yet available



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)