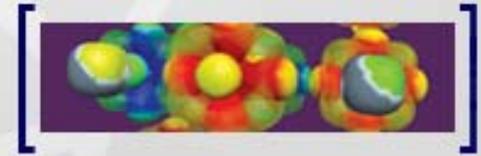




National Science Foundation



# NSF Regional Grants Conference

## Crosscutting Programs

*April 7-8, 2008*

Hosted by: The University of Rhode Island  
Providence, Rhode Island

# Ask Early, Ask Often!

Name	Title	Contact
Lloyd Douglas	Expert Directorate for Mathematical & Physical Sciences; Division of Mathematical Sciences	<a href="mailto:ldouglas@nsf.gov">ldouglas@nsf.gov</a> (703) 292-4862
Jolene Jesse	Program Director Directorate for Education & Human Resources; Division of Human Resource Development	<a href="mailto:jjesse@nsf.gov">jjesse@nsf.gov</a> (703) 292-7303
Ping Li	Program Director Directorate for Social, Behavioral & Economic Sciences; Division of Behavioral and Cognitive Sciences	<a href="mailto:p-li@nsf.gov">p-li@nsf.gov</a> (703) 292-8643
Randy Phelps	Staff Associate Office of Integrative Activities Office of the Director	<a href="mailto:rphelps@nsf.gov">rphelps@nsf.gov</a> (703) 292-5049
Madeline Rasche	Program Director Directorate for Biological Sciences; Division of Molecular & Cellular Biosciences	<a href="mailto:mrasche@nsf.gov">mrasche@nsf.gov</a> (703) 292-8084



Funding



Funding

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Proposals and Awards

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Proposal Preparation and Submission

- Grant Proposal Guide
- Grants.gov Application Guide

Award Administration

- Award Administration Guide

Award Conditions

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NSF Outreach

## 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.

[Get Crosscutting Program Announcements & Info Updates by Email](#) | [RSS](#) [What is RSS?](#)

**Sorted by Title.** Click column headings to sort.

**Key:** [Crosscutting](#) | [NSF-wide](#) | Grants.gov submission required

Title	Program Guidelines	Due Dates
<a href="#">Active Nanostructures and Nanosystems (ANN) (ANN)</a>	<a href="#">06-595</a>	
<a href="#">ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers</a>	<a href="#">07-582</a>	
<a href="#">Advanced Learning Technologies (ALT)</a>	<a href="#">06-535</a>	Full Proposal: April 25, 2008
<a href="#">Collaboration in Mathematical Geosciences (CMG)</a>	<a href="#">05-535</a>	
<a href="#">Collaborative Research in Computational Neuroscience (CRCNS)</a>	<a href="#">08-514</a>	Full Proposal: February 26, 2008
		Full Proposal: October 30, 2008

# Programs for Specific Groups/Purposes

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



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

- Program Solicitation: [NSF 07-582](#)
- Website:  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5383&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5383&from=fund)
- Deadlines
  - December 6, 2007
    - Institutional Transformation Planning Grants (IT-Start)
    - Institutional Transformation (IT)
  - January 17, 2008
    - Partnerships for Adaptation, Implementation and Dissemination (PAID)
- Contact Information:
  - Jessie DeAro (EHR): (703) 292-5350; [jdearo@nsf.gov](mailto:jdearo@nsf.gov)
  - Laura Kramer (EHR): (703) 292-8575; [lkramer@nsf.gov](mailto:lkramer@nsf.gov)



# **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 science and engineering careers, thereby contributing to the development of a more diverse science and engineering workforce.



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

## Eligibility Information

- **Institutional Transformation and IT-Start**
  - Proposals may be submitted by academic institutions of higher learning in the U.S., its territories or possessions, or the Commonwealth of Puerto Rico, that award degrees in a field supported by NSF
  - Organizations that have received NSF ADVANCE Institutional Transformation awards are not eligible to apply for another institutional transformation award or for an IT-Start award.
- **Partnerships for Adaptation, Implementation and Dissemination**
  - Proposals may be submitted by: academic institutions of higher learning that award degrees in a field supported by NSF; professional societies; or other not-for-profit organizations.
  - Organizations may submit only one Institutional Transformation proposal or one IT-Start proposal. There is no limitation on the number of PAID proposals.



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

- **Award Information**

- Total awards estimated to be 30 to 38
- Anticipated Funding Amount: \$13,000,000 total expected from all participating directorates.



# Cyber-Enabled Discovery & Innovation (CDI)

- **Program Solicitation:** [NSF-07-603](#)
- **Website:**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503163&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503163&from=fund)
- **Deadlines**
  - Letter of Intent (Required): August 30, 2008 - September 30, 2008
  - Preliminary Proposal (Required): October 04, 2008 - November 04, 2008
  - Full Proposal (By Invitation Only): January 27, 2009 - February 27, 2009
- **Contact Information:**
  - Sirin Tekinay
  - Thomas Russell
  - Eduardo Misawa

(703) 292-8080  
[cdi@nsf.gov](mailto:cdi@nsf.gov)



# Cyber-Enabled Discovery & Innovation (CDI)

- New 5-year program, started FY07
- Cross-NSF – all directorates participating
- Science/Engineering becomes increasingly computational, CDI supports multi-disciplinary research seeking significant advancement of more than one field of science or engineering.
- Enabled by advances in **computational thinking**, referring to computational concepts, methods, models, algorithms, tools, as applied to all fields of Science/Engineering (including computational research in Computer Science itself).
- Collectively, CDI research outcomes are expected to produce paradigm shifts in our understanding of a wide range of science and engineering phenomena and socio-technical innovations that create new wealth and enhance the national quality of life.



# Long-term Funding for Cyber-enabled Discovery and Innovation

<b>FY 2008</b> <b>(Passed)</b>	<b>FY 2009</b> <b>(in President's budget request)</b>	<b>FY 2010</b>	<b>FY2011</b>	<b>FY 2012</b>
<b>\$47.9M</b>	<b>\$100M</b>	<b>\$150M</b>	<b>\$200M</b>	<b>\$250M</b>



# Cyber-Enabled Discovery & Innovation (CDI)

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



# Cyber-Enabled Discovery & Innovation (CDI)

- **Two types of CDI awards will be supported as a result of the first (FY 2008) CDI competition**
  - **Type I Awards:** Summer support for two investigators with complementary expertise; two graduate students; and their collective research needs (e.g. materials, supplies, travel) for three years.
  - **Type II Awards:** Summer support for three investigators with complementary expertise; three graduate students; one or two senior personnel (including post-doctoral researchers and staff); and their collective research needs (e.g. materials, supplies, travel) for four years.
- **Subsequent years:**
  - **Type III Awards:** will require the engagement of larger (than Type II) multidisciplinary teams, roughly comparable to multiple senior investigators with complementary expertise, multiple graduate students, several senior personnel, and their collective research needs (e.g. materials, supplies, travel) for up to five years.



# Cyber-Enabled Discovery & Innovation (CDI)

- **Eligibility:** Proposals may only be submitted by:
  - Universities and colleges: U.S. universities and two- and four-year colleges (including community colleges)
  - Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities, subject to Grant Proposal Guide (GPG) guidelines
  - An individual may participate as Principal Investigator, co-Principal Investigator or Senior Personnel in at most two letters of intent, preliminary proposals, and full proposals in each annual competition.



# Grant Opportunities for Academic Liaison with Industry (GOALI)

- Program Solicitation: [NSF-07-522](#)
- Program Website:  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13706&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13706&from=fund)
- Contact disciplines for deadlines & contact information



# Grant Opportunities for Academic Liaison with Industry (GOALI)

- **Program Goals:**

- synergize university-industry partnerships by making project funds or fellowships/traineeships available to support an eclectic mix of industry-university linkages.
- This 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. .
- Seeks to fund research that lies beyond that which industry would normally fund by themselves.



# Grant Opportunities for Academic Liaison with Industry (GOALI)

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



# Grant Opportunities for Academic Liaison with Industry (GOALI)

- **Award Information:**

- Total awards estimated to be 60 to 80

- Anticipated Funding Amount: \$5,000,000 total expected from all participating directorates.



# Integrative Graduate Education and Research Traineeship (IGERT)

- **Program Solicitation:** [NSF-08-540](#)
- **Program Website:**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=12759](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12759)
- **Deadlines:**
  - Preliminary Proposal for Traineeship Proposals (Required): April 24, 2008
  - Full Proposal for IGERT Resource Center: April 24, 2008
  - Full Proposal for Traineeship Proposals: October 20, 2008
- **Contact Information:**
  - Coordinating Committee members are listed at:  
<http://www.nsf.gov/crssprgm/igert/cc.jsp>



# Integrative Graduate Education and Research Traineeship (IGERT)

- **Program Goals:**

- Meet the challenges of educating U.S. Ph.D. scientists and engineers who will pursue careers in research and education with the interdisciplinary backgrounds, deep knowledge in chosen disciplines, and technical, professional, and personal skills to become, in their own careers, leaders and creative agents for change.
- 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.
- Contribute to a world-class, broadly inclusive, and globally engaged science and engineering workforce.



# Integrative Graduate Education and Research Traineeship (IGERT)

## Eligibility Information:

- For Traineeship proposals: U.S. academic institutions in the United States, its territories or possessions that grant the Ph.D. degree in the sciences and engineering may submit proposals. Projects may involve more than one institution, but a single institution must accept overall management responsibility. Non-Ph.D. granting institutions, nonacademic, and international organizations may serve as collaborating organizations.
- For Resource Center proposals: Only institutions located in the U.S are eligible to apply; All organizations with an educational mission are eligible.



# Integrative Graduate Education and Research Traineeship (IGERT)

## Additional Eligibility Information:

- **For Traineeship proposals:**

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

- **For Resource Center proposals:**

- The PI must be employed by the submitting institution.
- There is a limit of 1 proposal per submitting institution/organization.
- Any given individual may serve as PI or co-PI on only one proposal submission.



# Integrative Graduate Education and Research Traineeship (IGERT)

- **Award Information:**

- Estimated Number of Awards: Twenty Traineeship awards and one Resource Center award.
- Anticipated Funding Amount: \$12,600,000
  - New projects, the first year award will be up to \$400,000 and in amounts up to \$600,000 for each of the next four years.
  - Renewals will be made in amounts up to \$600,000 per year for five years.
  - NSF anticipates making one award for a Resource Center. This will be funded for up to 5 years at a maximum total of \$3M and an annual average of ~\$600,000



# Major Research Instrumentation (MRI)

- **Program Solicitation:** [NSF-08-503](#)
  - [Dear Colleague Letter](#) noting cost-sharing changes;
  - [Frequently Asked Questions \(FAQs\)](#)
- **Major Changes Effective FY 2008:**
  - The America COMPETES Act of 2007 directs NSF to require cost-sharing in the MRI Program. Effective FY 2008, the MRI program will require 30% cost-sharing on all proposals from PhD granting and non-degree granting institutions (independent research museums, independent nonprofit organization and consortia). Non-PhD granting institutions are not required to provide cost-sharing.
  - The upper limit on the budget for acquisition proposals has been raised to \$4 million. Requests over \$2 million require a letter of intent and must be for the acquisition of a single instrument only. The upper limit on the budget for development proposals remains at \$2 million.
  - Operation and maintenance are eligible expenses on acquisition proposals
- **Deadlines:** Fourth Thursday in January



# Major Research Instrumentation (MRI)

- **Program Goals:**

- Increase access to scientific and engineering equipment for research and research training in our Nation's organizations of higher education, research museums and non-profit research organizations.
- Improve the quality and expand the scope of research and research training in science and engineering, and to foster the integration of research and education by providing instrumentation for research-intensive learning environments.



# Major Research Instrumentation (MRI)

## Eligibility Information:

- **Proposals may only be submitted by the following:**
  1. US colleges, universities and organizations of higher education located in the US, its territories and possessions.
  2. US independent research museums located in the US, its territories and possessions.
  3. US independent nonprofit research organizations located in the US, its territories and possessions, including consortia whose members consist only of organizations described in items (1) and (2).
  4. US small businesses located in the US, its territories and possessions are eligible for instrument development support as private sector partners with submitting organizations; they may not submit proposals as a lead organization.



# Major Research Instrumentation (MRI)

- **Both of the following conditions must be met or proposal(s) will be returned without review:**
  - An organization may submit or be included as a partner or subawardee in no more than three proposals.
  - If an organization submits or is included as a partner or subawardee in three proposals, at least one of the three proposals must be for instrument development.



# Major Research Instrumentation (MRI)

- **Award Information<sup>1</sup>:**

- Anticipated Type of Award: Standard Grant
- Estimated Number of Awards: 225, including 6-7 mid-range (\$2-4 million) awards
- Anticipated Funding Amount: \$110,000,000

- **Contact Information:**

- Phone: (703) 292-8040
- E-mail: [mri@nsf.gov](mailto:mri@nsf.gov)

1. From the 08-503 solicitation



# Science and Technology Centers Program: Integrative Partnerships (STCs)

- Support research and education of the highest quality;
- Exploit opportunities in science, engineering and technology where the complexity of the research agenda requires the advantages of scope, scale, change, duration, equipment and facilities that a Center can provide;
- Support innovative frontier investigations at the interfaces of disciplines, and/or fresh approaches within disciplines;
- Engage the Nation's intellectual talent, robustly drawn from its full human diversity, in the conduct of research and education activities;
- Promote organizational connections and linkages within and between campuses, schools and/or the world beyond (state, local, federal agencies, national labs, industry, international collaborations);
- Focus on integrative learning and discovery and the preparation of U.S. students for a broad set of career paths; and
- Foster science and engineering in service to society especially with respect to new research areas, promising new instrumentation and potential new technologies.

***Plans are being made to issue a program solicitation in  
May or June 2008.***

**Contact Information: Joan M. Frye**

- Phone: (703) 292-8040
- E-mail: [jfrye@nsf.gov](mailto:jfrye@nsf.gov)



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

- **Program Solicitation:** [07-555](#) (FY 2008 solicitation under development)
- **Website:**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5472&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5472&from=fund)
- **Deadlines:**
  - Letter of Intent: May 16, 2007
  - Full Proposal: July 2, 2007
- **Contact Information:**
  - Sonia Ortega (EHR):
    - Phone: (703) 292-5198
    - E-mail: [sortega@nsf.gov](mailto:sortega@nsf.gov)
  - Umesh Thakkar (EHR):
    - Phone: (703) 292-8697
    - E-mail: [uthakkar@nsf.gov](mailto:uthakkar@nsf.gov)



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

- **Program Goals:**

- Provides funding to graduate students in NSF- supported science, technology, engineering, and mathematics (STEM) disciplines to acquire additional skills that will broadly prepare them for professional and scientific careers in the 21st century.
- Expected outcomes include improved communication, teaching and team building skills for the fellows; professional development opportunities for K-12 teachers; enriched learning for K-12 students; and strengthened partnerships between institutions of higher education and local school districts.



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

## Eligibility Information

- Only academic institutions in the United States and its territories that grant masters or doctoral degrees in STEM disciplines supported by the National Science Foundation (NSF) may submit proposals.
- The PI must be a faculty member at the lead institution in a STEM discipline.
- One proposal per institution, either New or Continuing for any one competition.



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

- **Award Information:**

- Anticipated Type of Award: Continuing Grant
- Estimated Number of Awards: 25 including New and Continuing projects.
- Anticipated Funding Amount: \$16,000,000 approximately in FY 2007.



# Research Experiences for Undergraduates (REU)

- Program Solicitation: [07-569](https://www.nsf.gov/pubs/2007/2007-569.pdf)
- Program Website:  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5517&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund)
- Deadlines:
  - REU Sites: August 18, 2008
  - REU Sites (Antarctic Program): June 6, 2008; June 5, 2009
  - REU Supplements: Contact Discipline
- Contact Information:  
[http://www.nsf.gov/crssprgm/reu/reu\\_contacts.jsp](http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp)



# Research Experiences for Undergraduates (REU)

## REU Sites

- **Program Goals:**

- Initiate and conduct projects that engage a number of undergraduate students in research.
- 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

- Provides 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 or Engineering
- Research Experiences for Teachers
- REU Supplements for Evaluative Research Experiences



# Research Experiences for Undergraduates (REU)

- **Award Information:**

- REU activity may be funded as a standard or continuing grant (for REU Sites), as a supplement to an existing award, or as a component of a new or renewal grant or cooperative agreement.
- Estimated Number of Awards: 1700 to 1800 - This estimate includes approximately 150 new Site awards and 1,600 new Supplement awards.
- Anticipated Funding Amount: \$57,000,000 in FY2008 - This estimate includes both Sites and Supplements.



# Research in Undergraduate Institutions (RUI)

- Program Solicitation: [NSF 00-144](#)
- Program Website:  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5518&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518&from=fund)
- Contact discipline for deadlines and contact information



# Research in Undergraduate Institutions (RUI)

- **Program Goals:**

- Support high quality research with active involvement of undergraduates.
- Strengthen the research environment in undergraduate institutions.
- 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



# NSF Websites

National Science Board	<a href="http://www.nsf.gov/nsb/">http://www.nsf.gov/nsb/</a>
Director/Deputy Director	<a href="http://www.nsf.gov/od/">http://www.nsf.gov/od/</a>
Inspector General	<a href="http://www.nsf.gov/oig/">http://www.nsf.gov/oig/</a>
Office of Cyberinfrastructure	<a href="http://www.nsf.gov/dir/index.jsp?org=OCI">http://www.nsf.gov/dir/index.jsp?org=OCI</a>
Office of International Science and Engineering	<a href="http://www.nsf.gov/div/index.jsp?div=OISE">http://www.nsf.gov/div/index.jsp?div=OISE</a>
Office of Equal Opportunity Programs	<a href="http://www.nsf.gov/od/oeo/index.jsp">http://www.nsf.gov/od/oeo/index.jsp</a>
Office of Legislative and Public Affairs	<a href="http://www.nsf.gov/od/lpa/index.jsp">http://www.nsf.gov/od/lpa/index.jsp</a>
Office of the General Counsel	<a href="http://www.nsf.gov/od/ogc/index.jsp">http://www.nsf.gov/od/ogc/index.jsp</a>
Office of Polar Programs	<a href="http://www.nsf.gov/dir/index.jsp?org=opp">http://www.nsf.gov/dir/index.jsp?org=opp</a>
Office of Integrative Activities	<a href="http://www.nsf.gov/od/oia/index.jsp">http://www.nsf.gov/od/oia/index.jsp</a>
Biological Sciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=BIO">http://www.nsf.gov/dir/index.jsp?dir=BIO</a>
Social, Behavioral & Economic Sciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=SBE">http://www.nsf.gov/dir/index.jsp?dir=SBE</a>
Computer & Information Science & Engineering	<a href="http://www.nsf.gov/dir/index.jsp?dir=CISE">http://www.nsf.gov/dir/index.jsp?dir=CISE</a>
Education & Human Resources	<a href="http://www.nsf.gov/dir/index.jsp?dir=EHR">http://www.nsf.gov/dir/index.jsp?dir=EHR</a>
Engineering	<a href="http://www.nsf.gov/dir/index.jsp?dir=ENG">http://www.nsf.gov/dir/index.jsp?dir=ENG</a>
Budget, Finance & Award Management	<a href="http://www.nsf.gov/bfa/">http://www.nsf.gov/bfa/</a>
Geosciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=GEO">http://www.nsf.gov/dir/index.jsp?dir=GEO</a>
Information Resource Management	<a href="http://www.nsf.gov/oirm/">http://www.nsf.gov/oirm/</a>
Mathematical & Physical Sciences	<a href="http://www.nsf.gov/dir/index.jsp?dir=MPS">http://www.nsf.gov/dir/index.jsp?dir=MPS</a>

