



National Science Foundation  
WHERE DISCOVERIES BEGIN

# Proposal Preparation

**NSF Grants Conference**

Hosted by The George Washington University

October 6-7, 2014

# Panelists

## **Jean Feldman**

Head, Policy Office, Office of Budget, Finance & Award Management,  
Division of Institution & Award Support

## **Sonia Esperança**

Program Director, Directorate for Geosciences, Division of Earth Sciences

## **Anthony Garza**

Program Director, Directorate for Biological Sciences; Division of Molecular  
& Cellular Biosciences

## **Bogdan Mihaila**

Program Director, Directorate for Mathematical & Physical Sciences;  
Division of Physics



# Topics Covered

- **Find Funding Opportunities**
- **Proposal and Award Policies and Procedures Guide**
- **Types of Proposal Submissions**
- **Sections of an NSF Proposal**
- **Postdoctoral Mentoring Plans**
- **Data Management Plans**



# Find Funding Opportunities

The screenshot shows the NSF website's navigation menu. The 'FUNDING' menu is highlighted with a red circle and contains the following items:

- Search Funding Opportunities
- Browse Opportunities A-Z
- Recent Opportunities
- Due Dates
- Preparing Proposals
- Policies & Procedures
- Merit Review
- Interdisciplinary Research
- Transformative Research
- About Funding

The main content area features a banner for 'Understanding Bacterial Crowdsourcing' with a 'FULL STORY' button. Below the banner is a navigation bar with 'Advancing the Sciences', 'Funding & Supporting', and 'Inspiring & Educating' sections, and a 'HIDE' button.

Below the navigation bar are several featured articles:

- VIMS Researchers Unravel Life Cycle of Blue-crab Parasite** (October 4, 2012)
- A Mammal Lung, In 3-D** (October 2, 2012)
- Home-based Assessment Tool for Dementia Screening** (October 2, 2012)
- URI Scientists: Marine Plants Can Flee to Avoid Predators** (October 1, 2012)
- White Shark Diets Vary With Age and**
- Disappearing Act**



# Find Funding Opportunities



The screenshot shows the NSF website with a search sidebar on the right circled in red. The sidebar contains a search bar, a dropdown menu for program areas, and a button to view all funding opportunities. The main content area includes a section for NSF Funding & Research Community with special notices and an event calendar.

**Are squiggly lines the future of password security?**  
June 2, 2014

**New Understanding the Brain Website features funding opportunities, research areas**  
April 2, 2014

## NSF Funding & Research Community

**SPECIAL NOTICES**

NSF Strategic Plan for FY 2014-2018

New NSF Proposal & Award Policies and Procedures Guide Issued, Effective for Proposals Submitted or Due On or After February 24, 2014

NSF Information Related to the American Recovery and Reinvestment Act of 2009

**EVENT CALENDAR**

- 17 JUN** NSF ADVANCE Program New Solicitation Webinars WEBCAST
- 19 JUN** CDL - The Future of Computing - Mediated Research and Innovation WEBCAST
- 19 JUN** The Future of Computing - Mediated Research and Innovation

**FUNDING OPPORTUNITIES**

Search Funding Opportunities

Enter search term  **GO**

Search by Program Area

Select One  **GO**

**VIEW ALL FUNDING OPPORTUNITIES** [>](#)

Proposal and Award Policies and Procedures Guide

Prepare a Proposal

Upcoming Due Dates

Submit Proposal to FastLane



# NSF Website Organization

The screenshot shows the NSF website homepage with a blue header. The NSF logo and name are on the left, and a 'QUICK LINKS' button is on the right. Below the header are five main navigation sections: Research Areas, Funding & Awards, Contact Us, Learning Resources, and News & Discoveries. The 'Funding & Awards' section is further divided into 'FUNDING INFO' and 'AWARD INFO'. The 'Search Awards' link in the 'AWARD INFO' section is circled in red. On the right side, contact information for the National Science Foundation is provided, including the address, phone numbers, and TDD number. A photograph of a modern building is visible in the bottom right corner of the website layout.

**Research Areas**

- › Biological Sciences
- › Computer & Information Science & Engineering
- › Cyberinfrastructure
- › Education and Human Resources
- › Engineering
- › Environmental Research & Education
- › Geosciences
- › Integrative Activities
- › International Science & Engineering
- › Mathematical & Physical Sciences
- › Polar Programs
- › Social, Behavioral & Economic Sciences

**Funding & Awards**

**FUNDING INFO**

- › Search Funding Opportunities
- › Browse Funding Opportunities A-Z
- › Recent Funding Opportunities
- › How to Prepare a Funding Proposal
- › Grant Proposal Guide
- › Submit a Proposal to FastLane

**AWARD INFO**

- › Managing Awards
- › Award & Administration Guide
- › **Search Awards**
- › Award Statistics (Budget Internet Info System)

**Contact Us**

- › Staff Directory
- › Organization List
- › Visit NSF
- › Work at NSF
- › Do Business with NSF
- › Press
- › Inspector General Hotline
- › How Do I ...?

**The National Science Foundation**  
4201 Wilson Boulevard, Arlington,  
Virginia 22230, USA

Tel: (703) 292-5111  
FIRS: (800) 877-8339  
TDD: (800) 281-8749

**Learning Resources**

- › Film, TV, Exhibits & More!
- › Slideshows & Photo Galleries
- › Classroom Resources
- › Funding for Research on Learning in Formal & Informal Settings

**News & Discoveries**

- › [Recent News](#)
- › Recent Discoveries
- › Multimedia Gallery
- › Special Reports

# NSF Award Search

The screenshot shows the NSF Award Search website. At the top left is the NSF logo with the text "National Science Foundation WHERE DISCOVERIES BEGIN". To the right is a "QUICK LINKS" button and a search bar containing the word "SEARCH". Below the header is a navigation menu with links for "HOME", "FUNDING", "AWARDS", "DISCOVERIES", "NEWS", "PUBLICATIONS", "STATISTICS", "ABOUT NSF", and "FASTLANE". Underneath this menu is a sub-menu with "Simple Search", "Advanced Search", "Popular Searches", "Download Awards", "Send Comments", and "Award Search Help". The main content area is titled "Awards Simple Search" and features a "NEW" badge next to a link "See What's New in the New Award Search". Below this is a search form with the label "Search award for:" and a "Search" button with a right arrow. A note below the form says "Use double quotes for exact search. For example 'water vapor'." There are two checkboxes: "Active Awards" (checked) and "Expired Awards" (unchecked). At the bottom of the page is another navigation menu with "FUNDING", "AWARDS", "DISCOVERIES", "NEWS", "PUBLICATIONS", "STATISTICS", "ABOUT NSF", and "FASTLANE". Below the menu is a footer with links: "Research.gov | USA.gov | National Science Board | Recovery Act | Budget and Performance | A Web Policies and Important Links | Privacy | FOIA | NO FEAR Act | Inspector General | Webmas". The NSF logo is also present at the bottom right of the page.



# Other Ways to Find Funding

Use Grants.gov's search feature

The screenshot shows the Grants.gov website interface. At the top, there is a navigation bar with links for CONTACT US, MANAGE SUBSCRIPTIONS, REGISTER, and LOGIN. Below this is a search bar with a dropdown menu set to 'Grant Opportunities' and a 'GO' button. The main content area features a 'Find Grants' section with a video player showing the Washington Monument. A red circle highlights the 'Search Grant Opportunities' button. Below the video is a section titled 'Find Open Grant Opportunities' with tabs for 'NEWEST OPPORTUNITIES', 'BROWSE CATEGORIES', 'BROWSE AGENCIES', and 'BROWSE ELIGIBILITIES'. A table of grant opportunities is displayed below the tabs.

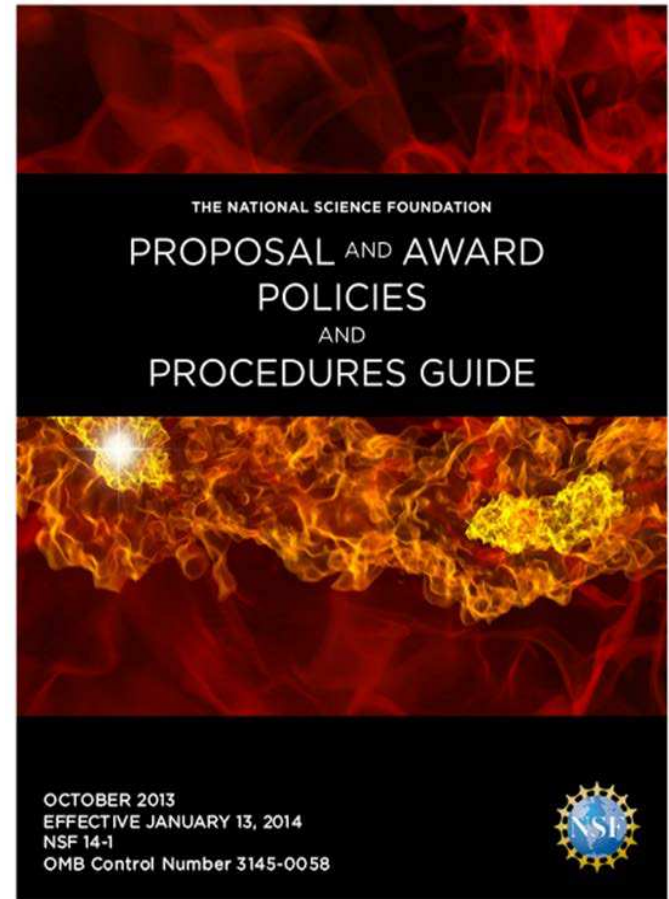
Funding Opportunity Number	Opportunity Title	Agency
RFA-263-14-000001	Local Scholarship Program	Egypt USAID-Cairo
NNH14ZDA001N-RST	ROSES 2014: Remote Sensing Theory for Earth Science	NASA Headquarters
CDC-RFA-DP14-1419PPHF14	PPHF 2014: Racial and Ethnic Approaches to Community Health (REACH) - financed in part by Prevention and Public Health Funding	Chronic Disease Prevention and Health Promotion
HHS-2014-ACL-CDAP-SO-0089	State Health Insurance Assistance Program Performance Improvement and Innovation Grant	Administration for Community Living
DARPA-BAA-14-46	DSO Office-Wide	DARPA - Defense Sciences





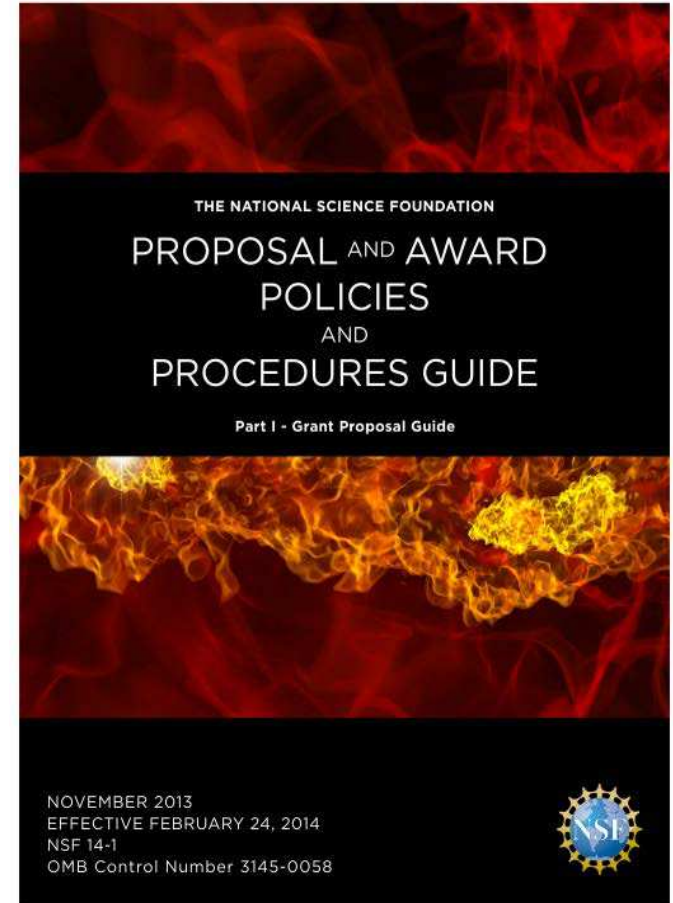
# What is the Proposal & Award Policies & Procedures Guide?

**The Proposal & Award Policies & Procedures Guide (PAPPG) contains documents relating to NSF's proposal and award process. It has been designed for use by both our customer community and NSF staff and consists of two parts:**



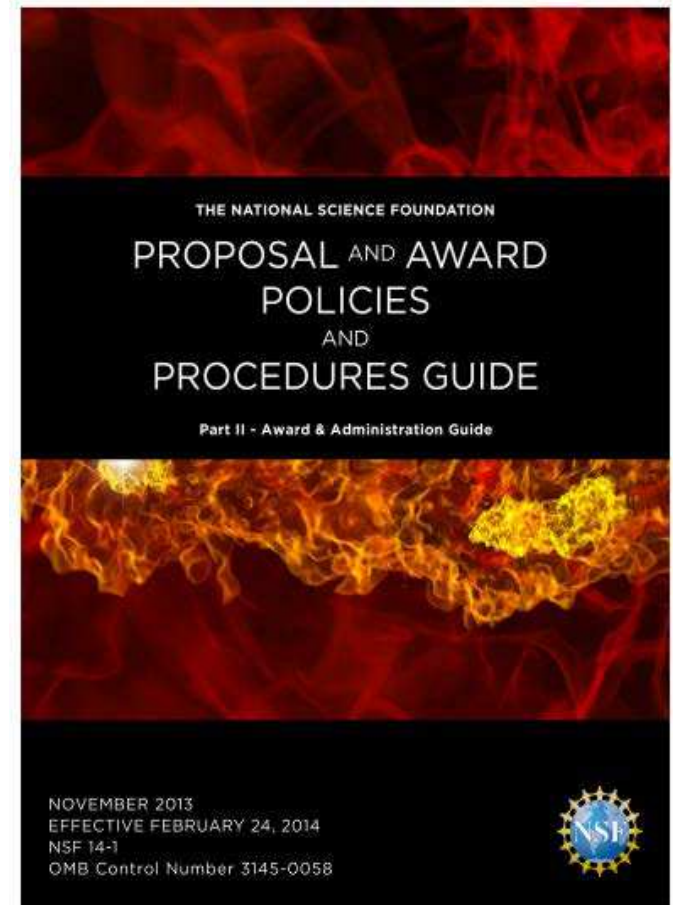
# What is the Proposal & Award Policies & Procedures Guide?

**Part I is NSF's proposal preparation and submission guidelines – the NSF Grant Proposal Guide (GPG) and the NSF Grants.gov Application Guide.**



# What is the Proposal & Award Policies & Procedures Guide?

**Part II is NSF's award and administration guidelines – the documents used to guide, manage, and monitor the award and administration of grants and cooperative agreements made by NSF.**

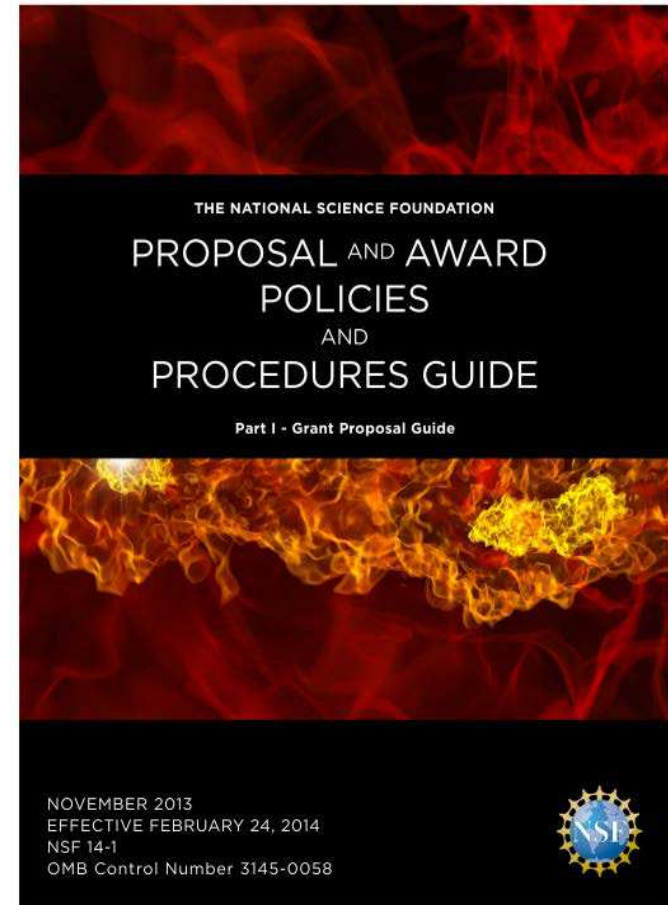


National Science Foundation  
WHERE DISCOVERIES BEGIN



# Grant Proposal Guide

- Provides guidance for preparation and submission of proposals to NSF
- Describes process – and criteria – by which proposals will be reviewed
- Outlines reasons why a proposal may be returned without review
- Describes process for withdrawals, returns, and declinations



# Types of Funding Opportunities

## Program Descriptions

Proposals for a **Program Description** must follow the instructions in the GPG.

## Program Announcements

Proposals for a **Program Announcement** must follow the instructions in the GPG.

## Program Solicitations

Proposals must follow the instructions in the **Program Solicitation**; the instructions in the GPG apply unless otherwise stated in the solicitation.

## Dear Colleague Letters

**Dear Colleague Letters** are notifications of opportunities or special competitions for supplements to existing NSF awards.



# What to Look for in a Program Announcement or Solicitation

- **Goal of Program**
- **Eligibility**
- **Special proposal preparation and/or award requirements**



# Sample Cover Page of a Solicitation

## Louis Stokes Alliances for Minority Participation (LSAMP)

PROGRAM SOLICITATION

NSF 12-564



REPLACES DOCUMENT(S):

NSF 11-543



**National Science Foundation**

Directorate for Education & Human Resources  
Division of Human Resource Development



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

August 28, 2012

Bridge to the Doctorate

October 05, 2012

First Friday in October, Annually Thereafter

Bridge to the Doctorate

**Program  
Solicitation  
Number**

**NSF  
Directorates  
and Offices  
providing  
funding for this  
opportunity**



**National Science Foundation**  
WHERE DISCOVERIES BEGIN

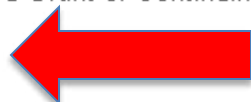


# Sample Cover Page of a Solicitation

## Award Information

**Anticipated Type of Award:** Standard Grant or Continuing Grant or Cooperative Agreement

**Estimated Number of Awards:** 60

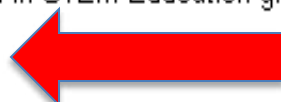


Up to 60 awards will be made across fiscal 2012 and 2013.

In FY 2012, up to 20 Bridge to the Doctorate (BD) grants will be made.

In FY2013, 20 Alliance grants (this includes 5 B2B), up to 15 Bridge to the Doctorate (BD) grants and up to 5 Broadening Participation Research (BPR) in STEM Education grants.

**Anticipated Funding Amount:** \$20,000,000



\$20,000,000 across fiscal years 2012 and 2013; Subject to the availability of funds.

**Number of awards funded by the program per year**

**Funds available to the program per year**





# Sample Cover Page of a Solicitation

## Eligibility Information

### Organization Limit:

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

### PI Limit:

**Alliance (including the B2B) and BD:** To promote institutional commitments to increase the quality and quantity of under-represented minorities in STEM disciplines, the President or Provost of the lead institution should serve as the Principal Investigator. A full explanation should be provided for a PI designation in variance with this requirement. Co-principal investigators from partner institutions may be designated, as appropriate, for the project.

**Broadening Participation Research in STEM Education:** Eligible PI/co-PI(s) for proposals applying for educational research or evaluation support should be the individual conducting or responsible for the research or evaluation project. Other potential co-Principal Investigators include collaborators on the research project. At least one of the PI's must have experience in educational research.

### Limit on Number of Proposals per Organization:

**Alliances (including B2B) and BD:** 1

**Broadening Participation Research in STEM Education:** No limit.

### Limit on Number of Proposals per PI:

**Alliances (including B2B):** 1

**Bridge to the Doctorate:** 1

**Broadening Participation Research in STEM Education:** No limit

**Eligibility  
information for  
institutions/PIs  
submitting  
proposals**



# Types of Proposal Submissions



**No Deadlines –**  
Proposals may be  
submitted at any time

## F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see [GPG Chapter I.H](#) for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

1. **Target dates:** dates after which proposals will still be accepted, although they may miss a particular panel or committee meeting.
2. **Deadline dates:** dates after which proposals be returned without review by NSF. The deadline date will be waived only in extenuating circumstances. Such a deviation only may be authorized in accordance with [GPG Chapter II.A](#).



# Types of Proposal Submissions



**Target Dates –**  
Talk to the Program Office if you think you might miss the date

## F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see [GPG Chapter I.H](#) for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

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# Types of Proposal Submissions



**Deadline Dates –**  
Proposals will not be accepted after this date and time (5 p.m. submitter's local time)

## F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see [GPG Chapter I.H](#) for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

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# Types of Proposal Submissions



**Submission Windows –**  
Closing date converts to a  
deadline date

**3. Submission windows:** designated periods of time during which proposals will be accepted for review by NSF. It is NSF's policy that the end date of a submission window converts to, and is subject to, the same policies as a deadline date.



# Types of Proposal Submissions



**Letters of Intent –**  
Enables better management  
of reviewers and panelists

## 1. Letter of Intent

Some NSF program solicitations require or request submission of a letter of intent (LOI) in advance of submission of a full proposal. A LOI is not binding. The predominant reason for its use is to help NSF program staff to gauge the size and range of the competition, enabling earlier selection and better management of reviewers and panelists. In addition, the information contained in a LOI is used to help avoid potential conflicts of interest in the review process.

A LOI normally contains the PI's and co-PI's names, a proposed title, a list of possible participating organizations (if applicable), and a synopsis that describes the work in sufficient detail to permit an appropriate selection of reviewers. A LOI is not externally evaluated or used to decide on funding. The requirement to submit a LOI will be identified in the program solicitation, and such letters are submitted electronically via the NSF FastLane System.



# Types of Proposal Submissions



**Preliminary Proposals –**  
Sometimes required,  
sometimes optional

## 2. Preliminary Proposal

Some NSF program solicitations require or request submission of a preliminary proposal in advance of submission of a full proposal. The two predominant reasons for requiring submission of a preliminary proposal are to:

- reduce the proposers' unnecessary effort in proposal preparation when the chance of success is very small. This is particularly true of exploratory initiatives where the community senses that a major new direction is being identified, or competitions that will result in a small number of actual awards; and
- increase the overall quality of the full submission.

# Proposals Not Accepted

- **Proposals that do not contain the following required sections will not be accepted by FastLane:**
  - Project Summary
  - Project Description
  - References Cited
  - Biographical Sketch(es)
  - Budget
  - Budget Justification
  - Current and Pending Support
  - Facilities, Equipment and Other Resources
  - Data Management Plan
  - Postdoctoral Mentoring Plan (if applicable)
- **If submission instructions do not require one of the above sections to be provided, proposers must insert text or upload a document in that section of the proposal that states, “Not Applicable.”**





# Sections of an NSF Proposal

## Cover Sheet (Required)

Many of the boxes on the cover sheet are electronically prefilled as part of the FastLane login process.

*Example from FastLane*

COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION					
PROGRAM ANNOUNCEMENT/SOLICITATION NO./CLOSING DATE (if not in response to a program announcement/solicitation enter NSF 08-1)					FOR NSF USE ONLY
NSF 98-164					NSF PROPOSAL NUMBER
FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.)					<b>0840812</b>
CNS - NETWORKING RESEARCH					
DATE RECEIVED	NUMBER OF COPIES	DIVISION ASSIGNED	FUND CODE	DUNS# (Data Universal Numbering System)	FILE LOCATION
08/03/2008	17	05050000 NCR	4097	0748118054568	02/10/2009 10:22am
EMPLOYER IDENTIFICATION NUMBER (EIN) OR TAXPAYER IDENTIFICATION NUMBER (TIN)		SHOW PREVIOUS AWARD NO. IF THIS IS <input type="checkbox"/> A RENEWAL <input type="checkbox"/> AN ACCOMPLISHMENT-BASED RENEWAL		IS THIS PROPOSAL BEING SUBMITTED TO ANOTHER FEDERAL AGENCY? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, LIST ACRONYM(S)	
NAME OF ORGANIZATION TO WHICH AWARD SHOULD BE MADE			ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE		
NSF			Arlington, VA 222302000		
AWARDEE ORGANIZATION CODE (IF KNOWN)			US		
4102852000					
NAME OF PERFORMING ORGANIZATION, IF DIFFERENT FROM ABOVE			ADDRESS OF PERFORMING ORGANIZATION, IF DIFFERENT, INCLUDING 9 DIGIT ZIP CODE		
PERFORMING ORGANIZATION CODE (IF KNOWN)					
IS AWARDEE ORGANIZATION (Check All That Apply) <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> MINORITY BUSINESS <input type="checkbox"/> IF THIS IS A PRELIMINARY PROPOSAL (See GPG II.C For Definitions) <input type="checkbox"/> FOR-PROFIT ORGANIZATION <input type="checkbox"/> WOMAN-OWNED BUSINESS THEN CHECK HERE					
TITLE OF PROPOSED PROJECT <b>Neural Network Research</b>					
REQUESTED AMOUNT	PROPOSED DURATION (1-60 MONTHS)	REQUESTED STARTING DATE	SHOW RELATED PRELIMINARY PROPOSAL NO. IF APPLICABLE		
\$ <b>400,000</b>	<b>0</b> months				
CHECK APPROPRIATE BOX(ES) IF THIS PROPOSAL INCLUDES ANY OF THE ITEMS LISTED BELOW					
<input type="checkbox"/> BEGINNING INVESTIGATOR (GPG I.G.2)		<input type="checkbox"/> HUMAN SUBJECTS (GPG II.D.6) Human Subjects Assurance Number _____			
<input type="checkbox"/> DISCLOSURE OF LOBBYING ACTIVITIES (GPG II.C)		Exemption Subsection _____ or IRB App. Date _____			
<input type="checkbox"/> PROPRIETARY & PRIVILEGED INFORMATION (GPG I.D, II.C.1.d)		<input type="checkbox"/> INTERNATIONAL COOPERATIVE ACTIVITIES: COUNTRY/COUNTRIES INVOLVED (GPG II.C.2.j)			
<input type="checkbox"/> HISTORIC PLACES (GPG II.C.2.j)					
<input type="checkbox"/> SMALL GRANT FOR EXPLOR. RESEARCH (SGER) (GPG II.D.1)					
<input type="checkbox"/> VERTEBRATE ANIMALS (GPG II.D.5) IACUC App. Date _____		<input type="checkbox"/> HIGH RESOLUTION GRAPHICS/OTHER GRAPHICS WHERE EXACT COLOR REPRESENTATION IS REQUIRED FOR PROPER INTERPRETATION (GPG I.G.1)			
PHS Animal Welfare Assurance Number _____					
PIPD DEPARTMENT <b>Division of Information Systems</b>			PIPD POSTAL ADDRESS <b>4201 Wilson Boulevard</b>		
PIPD FAX NUMBER <b>703-292-3000</b>			Arlington, VA 222301000 <b>United States</b>		
NAMES (TYPED)	High Degree	Yr of Degree	Telephone Number	Electronic Mail Address	
PIPD NAME <b>Terry Demo</b>	<b>PhD</b>	<b>2005</b>	<b>703-292-1000</b>	<b>td@nsf.gov</b>	
CO-PIPD					
CO-PIPD					
CO-PIPD					
CO-PIPD					

Electronic Signature



# Sections of an NSF Proposal

## Project Summary (Required)

Text boxes must contain an Overview and Statements on Intellectual Merit and Broader Impacts.

Proposals that do not separately address the Overview and both merit review criteria in text boxes will not be accepted by FastLane.

Project summaries with special characters must be uploaded as a PDF document.

## *Text from the GPG*

- Beginning Investigator (See [GPG I.G.2](#))
- Disclosure of Lobbying Activities (See [GPG II.C.1.e](#))
- Proprietary or Privileged Information (See [GPG I.D.3](#) & [II.C.1.d](#))
- Historic Places (See [GPG II.C.2.i](#))
- Vertebrate Animals<sup>20</sup> (See [GPG II.D.6](#))
- Human Subjects<sup>21</sup> (See [GPG II.D.7](#))
- International Activities Country Name(s) (See [GPG II.C.2.j](#))

### **b. Project Summary**

Each proposal must contain a summary of the proposed project not more than one page in length. The Project Summary consists of an overview, a statement on the intellectual merit of the proposed activity, and a statement on the broader impacts of the proposed activity.

The overview includes a description of the activity that would result if the proposal were funded and a statement of objectives and methods to be employed. The statement on intellectual merit should describe the potential of the proposed activity to advance knowledge. The statement on broader impacts should describe the potential of the proposed activity to benefit society and contribute to the achievement of specific, desired societal outcomes.

The Project Summary should be written in the third person, informative to other persons working in the same or related fields, and, insofar as possible, understandable to a scientifically or technically literate lay reader. It should not be an abstract of the proposal.

**Proposals that do not contain the Project Summary, including an overview and separate statements on intellectual merit and broader impacts will not be accepted by FastLane or will be returned without review.**

If the Project Summary contains special characters it may be uploaded as a Supplementary Document. Project Summaries submitted as a PDF must be formatted with separate headings for the overview, statement on the intellectual merit of the proposed activity, and statement on the broader impacts of the proposed activity. Failure to include these headings may result in the proposal being returned without review.

Additional instructions for preparation of the Project Summary are available in FastLane.

### **c. Table of Contents**

A Table of Contents is automatically generated for the proposal by FastLane. The proposer cannot edit this form.

### **d. Project Description (including Results from Prior NSF Support)**

#### **(i) Content**

The Project Description should provide a clear statement of the work to be undertaken and must include: objectives for the period of the proposed work and expected significance; relation to longer-term goals of the PI's project; and relation to the present state of knowledge in the field, to work in progress by the PI under other support and to



# Sections of an NSF Proposal

## Project Description (Required)

Proposers should address what they want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful.

A separate section within the narrative must include a discussion of the broader impacts of the proposed activities.

*Text from the GPG*

### d. Project Description (including Results from Prior NSF Support)

#### (i) Content

The Project Description should provide a clear statement of the work to be undertaken and must include: objectives for the period of the proposed work and expected significance; relation to longer-term goals of the PI's project; and relation to the present state of knowledge in the field, to work in progress by the PI under other support and to work in progress elsewhere.

The Project Description should outline the general plan of work, including the broad design of activities to be undertaken, and, where appropriate, provide a clear description of experimental methods and procedures. Proposers should address what they want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful. The project activities may be based on previously established and/or innovative methods and approaches, but in either case must be well justified. These issues apply to both the technical aspects of the proposal and the way in which the project may make broader contributions.

The Project Description must contain, as a separate section within the narrative, a discussion of the broader impacts of the proposed activities. Broader impacts may be accomplished through the research itself, through the activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to the project. NSF values the advancement of scientific knowledge and activities that contribute to the achievement of societally relevant outcomes. Such outcomes include, but are not limited to: full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM); improved STEM education and educator development at any level; increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society; development of a diverse, globally competitive STEM workforce; increased partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the United States; and enhanced infrastructure for research and education.

Plans for data management and sharing of the products of research, including preservation, documentation, and sharing of data, samples, physical collections, curriculum materials and other related research and education products should be described in the Special Information and Supplementary Documentation section of the proposal (see [GPG Chapter II.C.2.j](#) for additional instructions for preparation of this section).

#### (ii) Page Limitations and Inclusion of Uniform Resource Locators (URLs) within the Project Description

Brevity will assist reviewers and Foundation staff in dealing effectively with proposals. Therefore, the Project Description (including Results from Prior NSF Support, which is limited to five pages) **may not exceed 15 pages**. Visual materials, including charts, graphs, maps, photographs and other pictorial presentations are included in the 15-page limitation. PIs are cautioned that the Project Description must be self-contained and that URLs that provide information related to the proposal should not be used because 1) the information could circumvent page limitations, 2) the reviewers are under no obligation to view the sites, and 3) the sites could be altered or abolished between the time of

# Sections of an NSF Proposal

## References Cited (Required)

Reference information is required, and proposers must follow accepted scholarly practices in providing citations for source materials.

### *Text from the GPG*

limitations for the Project Description must request and receive a deviation in advance of proposal submission. ([GPG Chapter II.A](#) contains information on deviations.)

#### (vi) Proposals for Renewed Support

A proposal for renewed support may be either a "traditional" proposal in which the proposed work is documented and described as fully as though the proposer were applying for the first time; or, an "Accomplishment-Based Renewal" (ABR) proposal, in which the Project Description is replaced by copies of no more than six reprints of publications resulting from the research supported by NSF during the preceding three to five year period, plus a brief summary of plans for the proposed support period. (See [GPG Chapter V](#) for additional information on preparation of Renewal Proposals.)

#### e. References Cited

Reference information is required. Each reference must include the names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication. If the document is available electronically, the website address also should be identified.<sup>22</sup> Proposers must be especially careful to follow accepted scholarly practices in providing citations for source materials relied upon when preparing any section of the proposal. While there is no established page limitation for the references, this section must include bibliographic citations only and must not be used to provide parenthetical information outside of the 15-page Project Description.

**If there are no references cited, insert text or upload a document in this section of the proposal that states, "Not Applicable."**

#### f. Biographical Sketch(es)

##### (i) Senior Personnel

A biographical sketch (limited to two pages) is required for each individual identified as senior project personnel. (See [GPG Exhibit II-7](#) for the definitions of Senior Personnel.) The following information must be provided in the order and format specified below. Inclusion of additional information beyond that specified below may result in the proposal being returned without review.

**Do not submit** personal information such as **home** address; **home** telephone, fax, or cell phone numbers; home e-mail address; date of birth; citizenship; drivers' license numbers; marital status; personal hobbies; and the like. Such personal information is irrelevant to the merits of the proposal. If such information is included, NSF will make every effort to prevent unauthorized access to such material, but the Foundation is not responsible or in any way liable for the release of such material. (See also [GPG Chapter III.G](#)).

If biographical sketch(es) are not required, insert text or upload a document in this section of the proposal that states, "Not Applicable." In FastLane, if biographical sketches for all senior personnel are uploaded in a single PDF file associated with the PI, insert text or upload a document that states, "Not Applicable" for any co-PI or Senior Person.

##### (a) Professional Preparation



# Sections of an NSF Proposal

## Biographical Sketches (Required)

Biographical sketches are required for all senior project personnel and must not exceed two pages in length, per individual.

*Text from the GPG*

citations only and must not be used to provide parenthetical information outside of the 15-page Project Description.

**If there are no references cited, insert text or upload a document in this section of the proposal that states, "Not Applicable."**

### **f. Biographical Sketch(es)**

#### **(i) Senior Personnel**

A biographical sketch (limited to two pages) is required for each individual identified as senior project personnel. (See [GPG Exhibit II-7](#) for the definitions of Senior Personnel.) The following information must be provided in the order and format specified below. Inclusion of additional information beyond that specified below may result in the proposal being returned without review.

**Do not submit** personal information such as **home** address; **home** telephone, fax, or cell phone numbers; home e-mail address; date of birth; citizenship; drivers' license numbers; marital status; personal hobbies; and the like. Such personal information is irrelevant to the merits of the proposal. If such information is included, NSF will make every effort to prevent unauthorized access to such material, but the Foundation is not responsible or in any way liable for the release of such material. (See also [GPG Chapter III.G](#)).

If biographical sketch(es) are not required, insert text or upload a document in this section of the proposal that states, "Not Applicable." In FastLane, if biographical sketches for all senior personnel are uploaded in a single PDF file associated with the PI, insert text or upload a document that states, "Not Applicable" for any co-PI or Senior Person.

#### **(a) Professional Preparation**

A list of the individual's undergraduate and graduate education and postdoctoral training as indicated below:

Undergraduate Institution(s)	Major	Degree & Year
Graduate Institution(s)	Major	Degree & Year
Postdoctoral Institution(s)	Area	Inclusive Dates (years)

#### **(b) Appointments**

A list, in reverse chronological order, of all the individual's academic/professional appointments beginning with the current appointment.

#### **(c) Products**

A list of: (i) up to five products most closely related to the proposed project; and (ii) up to five other significant products, whether or not related to the proposed project. Acceptable



# Sections of an NSF Proposal

## Budget (Required)

Each proposal must contain a budget for each year of support requested. The budget justification should be no more than three pages for all years of the project combined.

*Example from FastLane*

SUMMARY PROPOSAL BUDGET				YEAR 1		FOR NSF USE ONLY		
ORGANIZATION				PROPOSAL NO.	DURATION (months)			
NSF					Proposed	Granted		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR				AWARD NO.				
Terry Demo								
A. SENIOR PERSONNEL: P/PI/D, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded person-months		Funds Requested by proposer		Funds granted by NSF (if different)
	CAL	ACAD	SUMR					
1. Terry Demo - none	0.00	0.00	0.00	\$	400,000	\$		
2.								
3.								
4.								
5.								
6. ( 0 ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00		0			
7. ( 1 ) TOTAL SENIOR PERSONNEL (1 - 6)	0.00	0.00	0.00		400,000			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)								
1. ( 0 ) POST DOCTORAL SCHOLARS	0.00	0.00	0.00		0			
2. ( 0 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00		0			
3. ( 0 ) GRADUATE STUDENTS					0			
4. ( 0 ) UNDERGRADUATE STUDENTS					0			
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					0			
6. ( 0 ) OTHER					0			
TOTAL SALARIES AND WAGES (A + B)					400,000			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					0			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					400,000			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)								
TOTAL EQUIPMENT					0			
E. TRAVEL								
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)					0			
2. FOREIGN					0			
F. PARTICIPANT SUPPORT COSTS								
1. STIPENDS \$ _____					0			
2. TRAVEL _____					0			
3. SUBSISTENCE _____					0			
4. OTHER _____					0			
TOTAL NUMBER OF PARTICIPANTS ( 0 )				TOTAL PARTICIPANT COSTS			0	
G. OTHER DIRECT COSTS								
1. MATERIALS AND SUPPLIES					0			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					0			
3. CONSULTANT SERVICES					0			
4. COMPUTER SERVICES					0			
5. SUBAWARDS					0			
6. OTHER					0			
TOTAL OTHER DIRECT COSTS					0			
H. TOTAL DIRECT COSTS (A THROUGH G)					400,000			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) (Rate: , Base: )								
TOTAL INDIRECT COSTS (F&A)					0			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					400,000			
K. RESIDUAL FUNDS					0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)					\$ 400,000	\$		
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$				
PI/PD NAME Terry Demo				FOR NSF USE ONLY				
ORG. REP. NAME*				INDIRECT COST RATE VERIFICATION				
				Date Checked	Date Of Rate Sheet	Initials - ORG		
Terry Demo								

1 \*ELECTRONIC SIGNATURES REQUIRED FOR REVISED BUDGET

# Budgetary Guidelines

Information regarding budgetary guidelines can be found in both the **GPG** and in the **Award & Administration Guide (AAG)**, as well as NSF program solicitations.

## Amounts should be:

- **Realistic and reasonable**
- **Well-justified and should establish need**
- **Consistent with program guidelines**

## Eligible costs consist of:

- **Personnel**
- **Equipment**
- **Travel**
- **Participant support**
- **Other direct costs**  
(e.g., subawards, consultant services, computer services, and publications costs)



# NSF Cost Sharing Policy

- **Inclusion of voluntary *committed* cost sharing is prohibited in solicited & unsolicited proposals.**
  - To be considered voluntary committed cost sharing, the cost sharing must meet all of the standards of [2 CFR § 215.23](#), to include identification of cost sharing on the NSF budget.
  - Line M will be “grayed out” in FastLane.
- **Organizations may, at their own discretion, continue to contribute any amount of voluntary uncommitted cost sharing to NSF-sponsored projects.**





# Sections of an NSF Proposal

## Facilities, Equipment, and Other Resources (Required)

This section of the proposal is used to assess the adequacy of the organizational resources available to perform the effort proposed.

### Facilities, Equipment, and Other Resources

**Instructions:** Upload an aggregated description of the internal and external resources (both physical and personnel) that the organization and its collaborators will provide to the project, should it be funded. Describe only those resources that are directly applicable. The description should be narrative in nature and must not include any quantifiable financial information. If there are no Facilities, Equipment, or Other Resources identified, a statement to that effect should be indicated in this section and uploaded into FastLane. See GPG II.C.2.i for more information.

Upload File



# Sections of an NSF Proposal

## Current and Pending Support (Required)

This section of the proposal calls for information on all current and pending support for ongoing projects and proposals.

### *Example from FastLane*

Current and Pending Support (See GPG Section II.C.2.h for guidance on information to include on this form.)				
<small>The following information should be provided for each investigator and other senior personnel. Failure to provide this information may delay consideration of this proposal.</small>				
Investigator:		<small>Other agencies (including NSF) to which this proposal has been/will be submitted.</small>		
Support:	<input type="checkbox"/> Current	<input type="checkbox"/> Pending	<input type="checkbox"/> Submission Planned in Near Future	<input type="checkbox"/> *Transfer of Support
Project/Proposal Title:				
Source of Support:				
Total Award Amount: \$		Total Award Period Covered:		
Location of Project:				
Person-Months Per Year Committed to the Project.		Cal:	Acad:	Sumr:
Support:	<input type="checkbox"/> Current	<input type="checkbox"/> Pending	<input type="checkbox"/> Submission Planned in Near Future	<input type="checkbox"/> *Transfer of Support
Project/Proposal Title:				
Source of Support:				
Total Award Amount: \$		Total Award Period Covered:		
Location of Project:				
Person-Months Per Year Committed to the Project.		Cal:	Acad:	Sumr:
Support:	<input type="checkbox"/> Current	<input type="checkbox"/> Pending	<input type="checkbox"/> Submission Planned in Near Future	<input type="checkbox"/> *Transfer of Support
Project/Proposal Title:				
Source of Support:				
Total Award Amount: \$		Total Award Period Covered:		
Location of Project:				
Person-Months Per Year Committed to the Project.		Cal:	Acad:	Sumr:
Support:	<input type="checkbox"/> Current	<input type="checkbox"/> Pending	<input type="checkbox"/> Submission Planned in Near Future	<input type="checkbox"/> *Transfer of Support
Project/Proposal Title:				
Source of Support:				
Total Award Amount: \$		Total Award Period Covered:		
Location of Project:				
Person-Months Per Year Committed to the Project.		Cal:	Acad:	Sumr:
<small>*If this project has previously been funded by another agency, please list and furnish information for immediately preceding funding period.</small>				
		Page G-0	USE ADDITIONAL SHEETS AS NECESSARY	



# Sections of an NSF Proposal

## Special Information and Supplementary Documentation

This segment should alert NSF officials to unusual circumstances that require special handling; more information can be found in the GPG Chapter II.C.2.j.

*Text from the GPG*

Although these resources are not considered cost sharing as defined in 2 CFR § 215.23 (OMB Circular A-110), the Foundation does expect that the resources identified in the Facilities, Equipment, and Other Resources section will be provided, or made available, should the proposal be funded. [AAG Chapter II.B.1](#) specifies procedures for use by the awardee when there are postaward changes to objective, scope or methodology.

**If there are no Facilities, Equipment and Other Resources to describe, insert text or upload a document in this section of the proposal that states, "Not Applicable."**

### j. Special Information and Supplementary Documentation

Except as specified below, special information and supplementary documentation must be included as part of the Project Description (or part of the budget justification), if it is relevant to determining the quality of the proposed work. Information submitted in the following areas is not considered part of the 15-page Project Description limitation. This Special Information and Supplementary Documentation section also is not considered an appendix. Specific guidance on the need for additional documentation may be obtained from the organization's sponsored projects office or in the references cited below.

- Postdoctoral Researcher Mentoring Plan. Each proposal<sup>33</sup> that requests funding to support **postdoctoral researchers**<sup>34</sup> must include, as a supplementary document, a description of the mentoring activities that will be provided for such individuals. If a Postdoctoral Researcher Mentoring Plan is required, FastLane will not permit submission of a proposal if the Plan is missing. In no more than one page, the mentoring plan must describe the mentoring that will be provided to all postdoctoral researchers supported by the project, irrespective of whether they reside at the submitting organization, any subawardee organization, or at any organization participating in a simultaneously submitted collaborative project. Proposers are advised that the mentoring plan may not be used to circumvent the 15-page project description limitation. See [GPG Chapter II.D.4](#) for additional information on collaborative proposals. Mentoring activities provided to postdoctoral researchers supported on the project will be evaluated under the Broader Impacts review criterion.

Examples of mentoring activities include, but are not limited to: career counseling; training in preparation of grant proposals, publications and presentations; guidance on ways to improve teaching and mentoring skills; guidance on how to effectively collaborate with researchers from diverse backgrounds and disciplinary areas; and training in responsible professional practices.

- Plans for data management and sharing of the products of research. Proposals must include a supplementary document of no more than two pages labeled "Data Management Plan". This supplement should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results (see [AAG Chapter VI.D.4](#)), and may include:

1. the types of data, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project;

# Special Information and Supplementary Documentation

- **Letters of Support versus Letters of Commitment**
- **Postdoctoral Mentoring Plans**
- **Data Management Plans**



# Mentoring for Postdoctoral Researchers

- **Proposals that include funding to support postdoctoral researchers must include a description of the mentoring activities that will be provided for such individuals.**
- **Proposed mentoring activities will be evaluated as part of the merit review process, under NSF's Broader Impacts merit review criterion.**



# Mentoring for Postdoctoral Researchers

- **Mentoring activities may include:**
  - Providing career counseling, training in the preparation of grant proposals, or training in responsible professional practices
  - Developing publications and presentations
  - Offering guidance on techniques to improve teaching and mentoring skills
  - Providing counseling on how to effectively collaborate with researchers from diverse backgrounds and disciplinary areas



# Mentoring for Postdoctoral Researchers

- **Proposals that identify a postdoc on the budget but do not include a maximum one-page mentoring plan as a supplementary document will be prevented from submission in FastLane.**
- **For collaborative proposals, the lead organization must submit a mentoring plan for all postdoctoral researchers supported under the entire collaborative project.**



# Data Management Plan Requirements

- **All proposals are required to include, as a supplementary doc, a data management plan of up to two pages.**
- **Plan should describe how the proposal will conform to NSF policy on dissemination and sharing of research results.**
- **A valid Data Management Plan may include only the statement that no detailed plan is needed, as long a clear justification is provided.**
- **Plan will be reviewed as part of the Intellectual Merit and/or Broader Impacts of the proposal.**





# Data Management Plan Requirements



The screenshot shows the NSF website's navigation menu with links for HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. The main content area is titled "Dissemination and Sharing of Research Results" and includes sections for "NSF Data Sharing Policy" and "NSF Data Management Plan Requirements". The left sidebar contains a "BFA Organization" menu with links to various divisions and offices.

**Office of Budget, Finance and Award Management (BFA)**

DIAS Home  
CAAR Branch  
**Policy Office**  
Systems Office  
View DIAS Staff  
Search DIAS Staff

**BFA Organization**

Office of Budget, Finance, & Award Management  
Budget Division  
Division of Acquisition and Cooperative Support  
Division of Financial Management  
Division of Grants & Agreements  
Division of Institution & Award Support

## Dissemination and Sharing of Research Results

### NSF Data Sharing Policy

Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing. See [Award & Administration Guide \(AAG\) Chapter VI.D.4.](#)

### NSF Data Management Plan Requirements

Proposals submitted or due on or after January 18, 2011, must include a supplementary document of no more than two pages labeled "Data Management Plan". This supplementary document should describe how the proposal will conform to NSF policy on the dissemination and sharing of research results. See [Grant Proposal Guide \(GPG\) Chapter II.C.2.i](#) for full policy implementation.

### Requirements by Directorate, Office, Division, Program, or other NSF Unit

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in [Grant Proposal Guide, Chapter II.C.2.i](#) apply.

Please note that if a specific program solicitation provides guidance on preparation of data management plans, such guidance must be followed.

- Engineering Directorate (ENG)
  - [Directorate-wide Guidance](#)
- Geological Sciences Directorate (GEO)
  - [Division of Earth Sciences](#)
  - [Integrated Ocean Drilling Program](#)
  - [Division of Ocean Sciences](#)
- Mathematical and Physical Sciences Directorate (MPS)
  - [Division of Astronomical Sciences](#)
  - [Division of Chemistry](#)
  - [Division of Materials Research](#)
  - [Division of Mathematical Sciences](#)
  - [Division of Physics](#)
- Social, Behavioral and Economic Sciences Directorate (SBE)
  - [Directorate-wide Guidance](#)

[Data Management & Sharing Frequently Asked Questions \(FAQs\)](#) - updated November 30, 2010

[nsf.gov/bfa/dias/policy/dmp.jsp](http://nsf.gov/bfa/dias/policy/dmp.jsp)



**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)**

