# Spring 2022 NSF Grants Conference

# **Proposal Preparation**

### **Panelists**

#### Jean Feldman

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

**Randy Phelps** Staff Associate, Office of Integrative Activities; Office of the Director

#### Jennifer Wade

Program Director, Division of Earth Sciences, Directorate for Geosciences



### **Topics Covered**

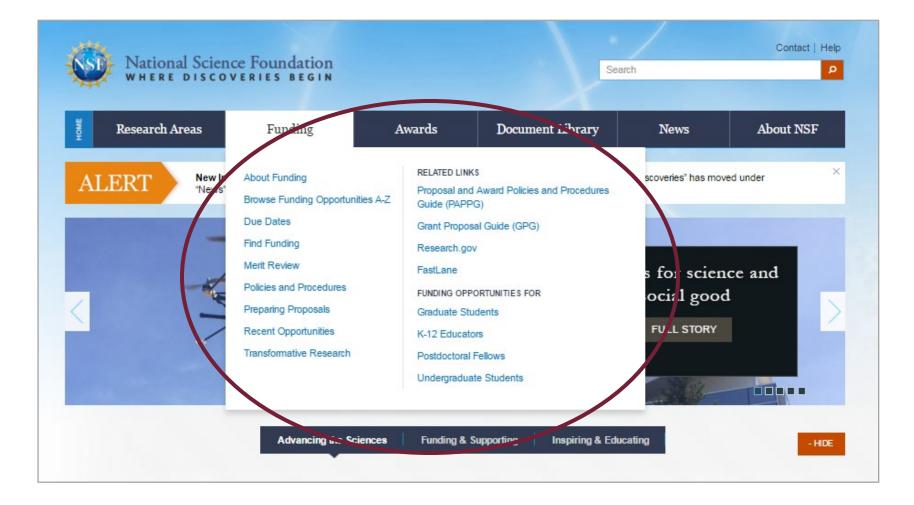
- Find Funding Opportunities
- Proposal and Award Policies and Procedures Guide
- Types of Proposal Submissions
- Sections of an NSF Proposal
- Postdoctoral Mentoring Plans
- Data Management Plans





"Ask Early, Ask Often!"

### **Find Funding Opportunities**





## **Find Funding Opportunities**



# **NSF Award Search**

	overies begin search Q
	COVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE
Simple Search Advanced	Search Popular Searches Download Awards Send Comments Award Search Help
Awards Simple Search	Overview of Award Search Features         Search award for:         Use double quotes for exact search. For example "water vapor".         Image: Comparison of the exact search
N-3 Feedback >	Followus 🚯 🕑 🛅 😐
FUNDING AWARDS DISCO	VERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE
	Research.gov   USA.gov   BusinessUSA   Recovery Act   Budget and Performance   Annual Financial Report   Web Policies and Important Links Privacy   FOIA   Plain Language   NO FEAR Act   Inspector General   Webmaster Contact   Site Map



### **Other Ways to Find Funding**

#### Use the Search Feature in Grants.gov

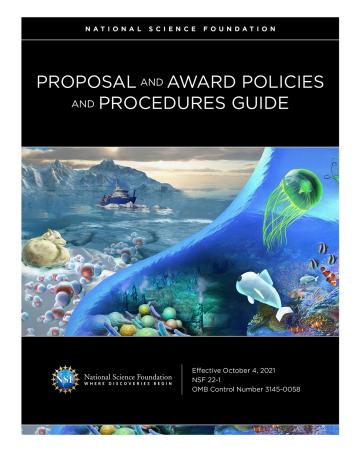




# What is the Proposal & Award Policies & Procedures Guide?

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.

- Part I is NSF's proposal preparation and submission guidelines
- Part II is NSF's award and administration guidelines





#### What is the Proposal & Award Policies & Procedures Guide? (cont'd)

- 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 not be accepted or returned without review
- Describes process for withdrawals, returns, and declinations
- Includes policies to guide, manage, and monitor the award and administration of grants and cooperative agreements



# **Types of Funding Opportunities**

#### **Funding Opportunities**

#### Program Descriptions

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

Program

Announcements

#### Program Solicitations

Proposals must follow the instructions in the **Program Solicitation**; the instructions in the PAPPG 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.

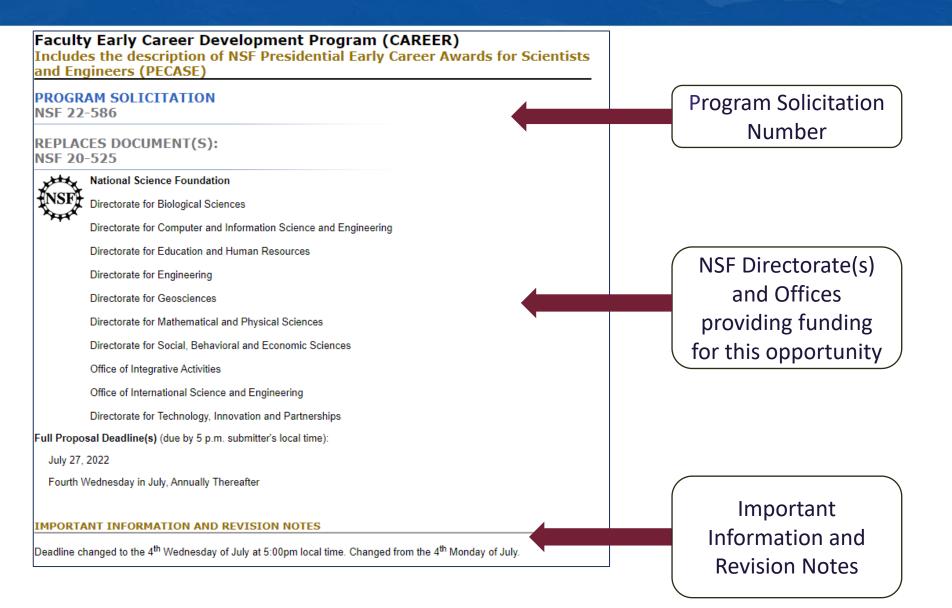


### What to Look for in a Program Announcement or Solicitation





### Sample Cover Page of a Solicitation





### Sample Cover Page of a Solicitation

Number of awards funded by the program per year

Funds available to the program per year

#### **Award Information**

Anticipated Type of Award: Standard Grant or Continuing Grant

Estimated Number of Awards: 500

per year

Anticipated Funding Amount: \$250,000,000

This annual amount is approximate, includes new and continuing increments, and is subject to availability of funds.



### Sample Cover Page of a Solicitation

Eligibility information for organizations/PIs submitting proposals



#### **Eligibility Information**

#### Who May Submit Proposals:

Proposals may only be submitted by the following:

- Institutions of Higher Education (IHEs) Two- and four-year IHEs (including community colleges)
  accredited in, and having a campus located in the US, acting on behalf of their faculty members.
  Special Instructions for International Branch Campuses of US IHEs: If the proposal includes funding to
  be provided to an international branch campus of a US institution of higher education (including
  through use of subawards and consultant arrangements), the proposer must explain the benefit(s) to
  the project of performance at the international branch campus, and justify why the project activities
  cannot be performed at the US campus.
- 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.

#### Who May Serve as PI:

A Principal Investigator (PI) may submit only one CAREER proposal per annual competition. In addition, a Principal Investigator may not participate in more than three CAREER competitions. Proposals that are not reviewed (i.e., are withdrawn before review or are returned without review) do not count toward the threecompetition limit.

#### Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or co-PI: 1

An eligible Principal Investigator may submit only one CAREER proposal per annual competition. No co-PIs are permitted.

National Science WHERE DISCOVER	Foundation Search	<b>NO DEADLINES</b> Proposals may be submitted at any time
Research Areas	Funding Awards Document Library N	News About NSF
Office of Budget Finance & Award Management (BFA)	Home	SE Email + Print + Drave
PAPP - Introduction	NSF 16-1 January 25, 2016	
A. About the NSF	Chapter I - Pre-Submission Information	F. When to Submit Proposals
B. Foreword		
C. Acronym List	A. NSF PROPOSAL PREPARATION AND SUBMISSION	
D. Definitions		Proposers should allow adequate time for processing of proposals (see <u>Chapter I.H</u> for
E. NSF Organizations	Unless specified in an NSF program solicitation, proposals submitted to NSF must be subr FastLane System or Grants.gov. Further information on each system is provided below.	further mornation. Hany nor programs decept proposals at any time, other programs,
Exhibit 1 - NSF Organizational Chart	<ul> <li>The policy and procedural guidance contained in the Grant Proposal Guide ( proposals submitted via the NSF FastLane System. FastLane may be used for</li> </ul>	······································
PAPP - Table of Contents Grant Proposal Guide	submission, file updates, and postaward administrative activities. Detailed in System is available from the FastLane website at https://www.fastlane.nsf.gov.	dates are utilized by NSE:
GPG - Table of Contents	<ul> <li>Proposal Preparation and Submission via Grants.gov. The policy and procedura Grants.gov Application Guide relates specifically to proposals submitted via Grants.gov</li> </ul>	
I. Pre-Submission Information	governmental resource to electronically find grant opportunities as well as to apply fo central storehouse for information on over 1,000 grant programs from the 28 Federal	1. Target dates: dates after which proposals will still be accepted, although they
II. Proposal Preparation Instructions	access to approximately \$500 billion annually in awards. Detailed information about ( Grants.gov website at http://grants.gov.	may miss a particular panel or committee meeting.
III. NSF Proposal Processing and Review	Contact with NSF program personnel prior to proposal preparation and submission is encou program solicitations that modify the general provisions of the GPG and/or the NSF Grants	2. Deadline dates, dates after which proposals will not be acconted or will be
IV. Non-Award Decisions and Transactions	cases, the guidelines provided in the solicitation must be followed. (See GPG Section C.4 I program solicitations.)	returned without review by NSF. The deadline date will be waived only in
V. Renewal Proposals	B. NSF PROGRAMS AND FUNDING OPPORTUNITIES	extenuating circumstances. Such a deviation only may be authorized in accordance
GPG Subject Index		with Chapter II.A.
GPG - PDF Version	NSF does not normally support technical assistance, pilot plant efforts, research requiring development of products for commercial marketing, or market research for a particular proj	s
Award and Administration Guide	disease-related goals, including work on the etiology, diagnosis or treatment of physical or	mental disease, abnormality, or





Research Areas	Foundation RIES BEGIN Funding Awards Document Library New Home	Contact   Help 2 s About NSF	<b>TARGET DATES</b> Talk to the Program Office if you think you mightmiss the date				
PAPP - Introduction	NSF 16-1 January 25, 2016						
A. About the NSF	Chapter I - Pre-Submission Information						
B. Foreword		F. When to	Submit Proposals				
C. Acronym List	A. NSF PROPOSAL PREPARATION AND SUBMISSION						
D. Definitions		-					
E. NSF Organizations	Unless specified in an NSF program solicitation, proposals submitted to NSF must be submi FastLane System or Grants.gov. Further information on each system is provided below.		ould allow adequate time for processing of proposals (see <u>Chapter I.H</u> for				
Exhibit 1 - NSF Organizational Chart	The policy and procedural guidance contained in the Grant Proposal Guide (GI		nation). Many NSF programs accept proposals at any time. Other programs,				
PAPP - Table of Contents	proposals submitted via the NSF FastLane System. FastLane may be used for submission, file updates, and postaward administrative activities. Detailed info System is available from the FastLane website at https://www.fastLane.nsf.gov.	however, est	ablish due dates for submission of proposals. The following types of due				
Grant Proposal Guide GPG - Table of Contents	Proposal Preparation and Submission via Grants.gov. The policy and procedural (	dates are utilized by NSF:					
I. Pre-Submission Information	Grants.gov Application Guide relates specifically to proposals submitted via Grants.gov governmental resource to electronically find grant opportunities as well as to apply for						
II. Proposal Preparation Instructions	central storehouse for information on over 1,000 grant programs from the 28 Federal g access to approximately \$500 billion annually in awards. Detailed information about Gr Grants.gov website at http://grants.gov.		t dates: dates after which proposals will still be accepted, although they				
III. NSF Proposal Processing and Review	Contact with NSF program personnel prior to proposal preparation and submission is encoura program solicitations that modify the general provisions of the GPG and/or the NSF Grants go cases, the guidelines provided in the solicitation must be followed. (See GPG Section C, 4 be)	may n	niss a particular panel or committee meeting.				
IV. Non-Award Decisions and Transactions	program solicitations.)	2. Dead	ine dates: dates after which proposals will not be accepted or will be				
V. Renewal Proposals	B. NSF PROGRAMS AND FUNDING OPPORTUNITIES		ed without review by NSF. The deadline date will be waived only in				
GPG Subject Index GPG - PDF Version	NSF does not normally support technical assistance, pilot plant efforts, research requiring se		uating circumstances. Such a deviation only may be authorized in accordance				
GPG - PDF Version Award and Administration Guide	development of products for commercial marketing, or market research for a particular projec disease-related goals, including work on the etiology, diagnosis or treatment of physical or m	with <u>C</u>	Chapter II.A.				





National Science I	Foundation Stars BEGIN	DEADLINE DATES Proposals will not be accepted after this date
Research Areas	Funding Awards Document Library News	About NSF and time (5 p.m. submitter's local time)
Office of Budget Finance & Award Management (BFA)	Home	SE Email & Print + Drare
PAPP - Introduction	NSF 16-1 January 25, 2016	
A. About the NSF	Chapter I - Pre-Submission Information	
B. Foreword	and the second second second second	
C. Acronym List	A. NSF PROPOSAL PREPARATION AND SUBMISSION	F. When to Submit Proposals
D. Definitions		
E. NSF Organizations	Unless specified in an NSF program solicitation, proposals submitted to NSF must be submitted via FastLane System or Grants.gov. Further information on each system is provided below.	
Exhibit 1 - NSF Organizational Chart	The policy and procedural guidance contained in the Grant Proposal Guide (GPG) rela	Proposers should allow adequate time for processing of proposals (see <u>Chapter I.H</u> for
PAPP - Table of Contents	proposals submitted via the NSF FastLane System. FastLane may be used for proposa submission, file updates, and postaward administrative activities. Detailed information	further information). Many NSF programs accept proposals at any time. Other programs,
Grant Proposal Guide	System is available from the FastLane website at https://www.fastlane.nsf.gov. Proposal Preparation and Submission via Grants.gov. The policy and procedural guidance	however, establish due dates for submission of proposals. The following types of due
GPG - Table of Contents	<ul> <li>Proposal preparation and submission via Grants.gov. The policy and procedura guidance Grants.gov Application Guide relates specifically to proposals submitted via Grants.gov. Grant governmental resource to electronically find grant opportunities as well as to apply for federal a</li> </ul>	dates are utilized by NSF:
I. Pre-Submission Information II. Proposal Preparation Instructions	governmental resolute to exclusionary find givin opportunities as were as to apply for resetters , central storehouse for information or over 1,000 grant programs from the 26 Federal grant-mal access to approximately \$500 billion annually in awards. Detailed information about Grants.gov Grants.gov website a http://grants.gov.	dates are utilized by NSI.
III. NSF Proposal Processing and Review	Contact with NSF program personnel prior to proposal preparation and submission is encouraged. So program solicitations that modify the general provisions of the GPG and/or the NSF Grants.gov Appl	1. Target dates: dates after which proposals will still be accepted, although they
IV. Non-Award Decisions and Transactions	cases, the guidelines provided in the solicitation must be followed. (See GPG Section C.4 below for 1 program solicitations.)	may miss a particular panel or committee meeting.
V. Renewal Proposals	B. NSF PROGRAMS AND FUNDING OPPORTUNITIES	<ol><li>Deadline dates: dates after which proposals will not be accepted or will be</li></ol>
GPG Subject Index		returned without review by NSF. The deadline date will be waived only in
GPG - PDF Version	NSF does not normally support technical assistance, pilot plant efforts, research requiring security of development of products for commercial marketing, or market research for a particular project or invo	extenuating circumstances. Such a deviation only may be authorized in accordance
Award and Administration Guide	disease-related goals, including work on the etiology, diagnosis or treatment of physical or mental dis	with <u>Chapter II.A.</u>





National Science           Network           Research Areas           Office of Budget Finance & Award Management (BFA)           PAPP - Introduction           A About the NSF           B. Foreword	Funding         Awards         Document Library         News           Home         NSF 16-1 January 25, 2016         Chapter I - Pre-Submission Information	Contact   Help 2 About NSF	SUBMISSION WINDOWS Proposals will not be accepted after this date and time (5 p.m. submitter's local time)
C. Acronym List D. Definitions	A. NSF PROPOSAL PREPARATION AND SUBMISSION		
E. NSF Organizations Exhibit 1 - NSF Organizational Chart PAPP - Table of Contents Grant Proposal Guide	Unless specified in an NSF program solicitation, proposals submitted to NSF must be submitte FastLane System or Grants.gov. Further information on each system is provided below. • The policy and procedural guidance contained in the Grant Proposal Guide (GPG proposals submitted via the NSF FastLane System. FastLane may be used for pro submission, file updates, and postbaward administrative activities. Detailed inform System is available from the FastLane website at https://www.fastlane.nsf.gov.	accepte window	<b>sion windows:</b> designated periods of time during which proposals will be d for review by NSF. It is NSF's policy that the end date of a submission converts to, and is subject to, the same policies as a deadline date.
GPG - Table of Contents I. Pre-Submission Information II. Proposal Preparation Instructions	<ul> <li>Proposal Preparation and Submission via Grants.gov. The policy and procedural gue Grants.gov Application Guide relates specifically to proposals submitted via Grants.gov. G governmental resource to electronically find grant opportunities as well as to apply for field central storehouse for information on over 1.000 grant programs from the 20 Federal grant access to approximately 5500 billion annually in avards. Detailed information about Grants Grants.gov website at http://grants.gov.</li> </ul>	Brants.gov was established as a eral awards. Grants.gov is a I-making agencies and provides	
III. NSF Proposal Processing and Review IV. Non-Award Decisions and Transactions	Contact with NSF program personnel prior to proposal preparation and submission is encouraged program solicitations that modify the general provisions of the GPG and/or the NSF Grants.gov. cases, the guidelines provided in the solicitation must be followed. (See GPG Section C.4 below program solicitations.)	Application Guide, and, in such	
V. Renewal Proposals	B. NSF PROGRAMS AND FUNDING OPPORTUNITIES		
GPG Subject Index	NSF does not normally support technical assistance, pilot plant efforts, research requiring securi	ity classification, the rinvention. Research with	





National Science	Foundation ERIES BEGIN			earch	Co	ntact   Help P	LETTERS OF II Enables bette
Research Areas	Funding	Awards	Document Library	News	About	t NSF	reviewers and
Office of Budget Finance & Award Management (BFA) PAPP - Introduction	Home NSF 16-1 Janua	ary 25, 2016	A		S Email 🕹 Prin	t 🕈 Share	
A. About the NSF	Chapter	I - Pre-Subm	ission Information				
B. Foreword	-				1.	Lette	rs of Intent
C. Acronym List	A. NSF PROPO	DSAL PREPARATION AND	D SUBMISSION		-		
D. Definitions							program solicitations require
E. NSF Organizations			tation, proposals submitted to NSF n nformation on each system is provide				a full proposal. An LOI is no staff gauge the size and
Exhibit 1 - NSF Organizational Chart			nce contained in the Grant Propo				
PAPP - Table of Contents	submissi	ion, file updates, and po	FastLane System. FastLane may b staward administrative activities.	Detailed informatio			of reviewers and panelists.
Grant Proposal Guide			Lane website at https://www.fastla		poten	tial confi	icts of interest in the review p
GPG - Table of Contents			ssion via Grants.gov. The policy and specifically to proposals submitted				
I. Pre-Submission Information			ally find grant opportunities as well a n over 1.000 grant programs from the		An LO	DI norma	Illy contains the Principal Inve
II. Proposal Preparation Instructions		o approximately \$500 billion ov website at http://grants.g	annually in awards. Detailed inform: gov.	ation about Grants.go			rganizations (if applicable), a
III. NSF Proposal Processing and Review	program solicitat	tions that modify the gener	to proposal preparation and submiss ral provisions of the GPG and/or the tation must be followed. (See GPG S	NSF Grants.gov App			election of reviewers. An L
IV. Non-Award Decisions and Transactions	program solicital		tation indist be followed. (See GFG 5	Section C.4 Delow Ion			o submit an LOI will be ide to NSF. Failure to submit a
V. Renewal Proposals	B. NSF PROGR	RAMS AND FUNDING OP	PORTUNITIES				eing accepted or returned wi
GPG Subject Index							
GPG - PDF Version			assistance, pilot plant efforts, researc				
Award and Administration Guide			narketing, or market research for a p le etiology, diagnosis or treatment of				

#### **LETTERS OF INTENT** Enables better management of reviewers and panelists

ome NSF program solicitations require or request submission of a <u>letter of intent</u> (LOI) in advance of ubmission of a full proposal. An LOI is not a binding document. The predominant reason for its use is to help SF program staff gauge the size and range of the competition, enabling earlier selection and better anagement of reviewers and panelists. In addition, the information contained in an LOI is used to help avoid otential conflicts of interest in the review process.

In LOI normally contains the Principal Investigator's (PI's) and co-PI's names, a proposed title, a list of possible articipating organizations (if applicable), and a synopsis that describes the work in sufficient detail to permit an opropriate selection of reviewers. An LOI is not externally evaluated or used to decide on funding. The quirement to submit an LOI will be identified in the program solicitation, and such letters are submitted ectronically to NSF. Failure to submit a required LOI identified in a program solicitation will result in a full oposal not being accepted or returned without review.





National Science WHERE DISCOVE	Foundation RIES BEGIN	PRELIMINARY PROPOSALS Sometimes required, sometimes
Zesearch Areas	Funding Awards Document Library N	about NSF optional
Office of Budget Finance & Award Management (BFA)	Home	a Email ⊕ Print +* Drare
PAPP - Introduction	NSF 16-1 January 25, 2016	
A. About the NSF	Chapter I - Pre-Submission Information	
B. Foreword		2. Preliminary Proposals
C. Acronym List	A. NSF PROPOSAL PREPARATION AND SUBMISSION	
D. Definitions		Some NSF program solicitations require or request submission of a preliminary proposal in advance of
E. NSF Organizations	Unless specified in an NSF program solicitation, proposals submitted to NSF must be sub FastLane System or Grants.gov. Further information on each system is provided below.	submission of a full proposal. The three predominant reasons for requiring submission of a preliminary proposal
Exhibit 1 - NSF Organizational Chart	<ul> <li>The policy and procedural guidance contained in the Grant Proposal Guide ( proposals submitted via the NSF FastLane System. FastLane may be used for</li> </ul>	are to:
PAPP - Table of Contents	submission, file updates, and postaward administrative activities. Detailed in System is available from the FastLane website at https://www.fastlane.nsf.gov	
Grant Proposal Guide GPG - Table of Contents	Proposal Preparation and Submission via Grants.gov. The policy and procedure	<ul> <li>reduce the proposers' unnecessary effort in proposal preparation when the chance of success is very</li> </ul>
I. Pre-Submission Information	Grants.gov Application Guide relates specifically to proposals submitted via Grants.g governmental resource to electronically find grant opportunities as well as to apply fo	small. This is particularly true of exploratory initiatives when the community senses that a major new
II. Proposal Preparation Instructions	central storehouse for information on over 1.000 grant programs from the 28 Federal access to approximately \$500 billion annually in awards. Detailed information about Grants.gov website at http://grants.gov.	direction is being identified, or competitions that will result in a small number of awards;
III. NSF Proposal Processing and Review	Contact with NSF program personnel prior to proposal preparation and submission is enco- program solicitations that modify the general provisions of the GPG and/or the NSF Grants	
IV. Non-Award Decisions and Transactions	cases, the guidelines provided in the solicitation must be followed. (See GPG Section C.4 program solicitations.)	<ul> <li>increase the overall quality of the full submission; and</li> </ul>
V. Renewal Proposals	B. NSF PROGRAMS AND FUNDING OPPORTUNITIES	<ul> <li>assist NSF program staff in managing the review process and in the selection of reviewers.</li> </ul>
GPG Subject Index		
GPG - PDF Version	NSF does not normally support technical assistance, pilot plant efforts, research requiring development of products for commercial marketing, or market research for a particular pro	
Award and Administration Guide	disease-related goals, including work on the etiology, diagnosis or treatment of physical or	





## **Single Copy Documents**

# Some proposal documents are for "NSF Use Only" and are not provided to reviewers

- Authorization to deviate from proposal preparation requirements
- List of suggested reviewers to include or not to include
- Proprietary or privileged information
- Proposal certifications
- Information about collaborators and other affiliations



# **Required Sections of a Research Proposal**



- Cover Sheet
- 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)

Proposals that do not contain these required sections may not be accepted by FastLane or Research.gov

# **Cover Sheet** (Required)

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

#### COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION PROGRAM ANNOUNCEMENT/SOLICITATION NO/DUE DATE Special Exception to Deadline Date Policy FOR NSF USE ONLY NSF 22-1 NSF PROPOSAL NUMBER FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.) CHE - CDS&E DATE RECEIVED NUMBER OF COPIES FILE LOCATION DIVISION ASSIGNED | FUND CODE UEI (Unique Entity Identifier) 03090000 CHE 8084 GGF7K5B4JSL5 EMPLOYER IDENTIFICATION NUMBER (EIN) OR SHOW PREVIOUS AWARD NO. IF THIS IS IS THIS PROPOSAL BEING SUBMITTED TO ANOTHER FEDERAL TAXPAYER IDENTIFICATION NUMBER (TIN) A RENEWAL AGENCY? YES NO IF YES, LIST ACRONYM(S) AN ACCOMPLISHMENT-BASED RENEWAL 530-20-6152 NAME OF ORGANIZATION TO WHICH AWARD SHOULD BE MADE ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE NATIONAL SCIENCE FOUNDATION 2415 EISENHOWER AVE ALEXANDRIA, VA 22314-4684 US AWARDEE ORGANIZATION CODE (IF KNOWN) 4102852000 ADDRESS OF PRIMARY PLACE OF PERF. INCLUDING 9 DIGIT ZIP CODE NAME OF PRIMARY PLACE OF PERF 2415 Eisenhower Avenue National Science Foundation Alexandria, VA 22314-4684 US IF THIS IS A PRELIMINARY PROPOSAL IS AWARDEE ORGANIZATION (Check All That Apply) MINORITY BUSINESS SMALL BUSINESS FOR-PROFIT ORGANIZATION WOMAN-OWNED BUSINE THEN CHECK HERE TITLE OF PROPOSED PROJECT SHOW LETTER OF INTENT ID IF Budget Test APPLICABLE REQUESTED AMOUNT PROPOSED DURATION (1-60 MONTHS) REQUESTED STARTING DATE SHOW RELATED PRELIMINARY PROPOSAL NO. F APPLICABLE months 10/03/2022 S 0 36 THIS PROPOSAL INCLUDES ANY OF THE ITEMS LISTED BELOW BEGINNING INVESTIGATOR HUMAN SUBJECTS Human Subjects Assurance Number DISCLOSURE OF LOBBYING ACTIVITIES Exemption Subsection or IRB App. Date PROPRIETARY & PRIVILEGED INFORMATION FUNDING OF INT'L BRANCH CAMPUS OF U.S IHE FUNDING OF FOREIGN ORGANIZATION OR FOREIGN INDIVIDUAL HISTORIC PLACES □ INTERNATIONAL ACTIVITIES: COUNTRY/COUNTRIES INVOLVED VERTEBRATE ANIMALS IACUC App. Date PHS Animal Welfare Assurance Number TYPE OF PROPOSAL Research COLLABORATIVE STATUS A collaborative proposal from one organization (PAPPG II.D.3.a) PI/PD DEPARTMENT PI/PD POSTAL ADDRESS PI/PD FAX NUMBER NAMES (TYPED) High Degree Yr of Degree Telephone Number Email Address

Example from Research.gov



#### **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 or Research.gov.
- Project summaries with special characters must be uploaded as a PDF document.

#### 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.

The Project Summary may ONLY be uploaded as a Supplementary Document if use of special characters is necessary. Such Project Summaries must be formatted with separate headings for Overview, Intellectual Merit and Broader Impacts. Failure to include these headings will result in the proposal being returned without review.

c. Table of Contents

A Table of Contents is automatically generated for the proposal. 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 the objectives for the period of the proposed work and expected significance; the relationship of this work to the present state of knowledge in the field, as well as to work in progress by the PI under other support.

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

Text from the PAPPG



<sup>&</sup>lt;sup>15</sup>If the proposal includes use of vertebrate animals, supplemental information is required. See Chapter II.D.4 for additional information.

<sup>&</sup>lt;sup>16</sup> If the proposal includes use of human subjects, supplemental information is required. See Chapter II.D.5 for additional information.

#### **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.

The Project Description must contain, as a separate section within the narrative, a section labeled "Broader Impacts". This section should provide 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 public scientific literacy 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 Chapter II.C.2.) 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. Pls are cautioned that the Project Description must be self-contained and that URLs must 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 deleted between the time of submission and the time of review.

Conformance to the 15-page limit will be strictly enforced and may not be exceeded unless a deviation has been specifically authorized. (Chapter II.A contains information on deviations.)

(iii) Results from Prior NSF Support

The purpose of this section is to assist reviewers in assessing the quality of prior work conducted with current or prior NSF funding. If any PI or co-PI identified on the proposal has received NSF support with a start date in the past five years (including any current funding and no cost extensions), information on the award is required for each PI and co-PI, regardless of whether the support was directly related to the proposal or not. In cases where the PI or any co-PI has received more than one award (excluding amendments to existing awards), they need only report on the one award that is most closely related to the proposal. Support includes not just salary support, but any funding awarded by NSF. NSF awards such as standard or continuing grants, Graduate Research Fellowship, Major Research Instrumentation, conference, equipment, travel, and center awards, etc., are subject to this requirement.

The following information must be provided:

- a) the NSF award number, amount and period of support;
- the title of the project;



#### **References Cited** (Required)

- Reference information is required, and proposers must follow accepted scholarly practices in providing citations for source materials.
- evidence of research products and their availability, including, but not limited to: data, publications, samples, physical collections, software, and models, as described in any Data Management Plan; and
- (f) if the proposal is for renewed support, a description of the relation of the completed work to the proposed work.

If the project was recently awarded and therefore no new results exist, describe the major goals and broader impacts of the project. Note that the proposal may contain up to five pages to describe the results. Results may be summarized in fewer than five pages, which would give the balance of the 15 pages for the Project Description.

(iv) Unfunded Collaborations

Any substantial collaboration with individuals not included in the budget should be described in the Facilities, Equipment and Other Resources section of the proposal (see Chapter II.C.2.i) and documented in a letter of collaboration from each collaborator. Such letters should be provided in the supplementary documentation section of the FastLane Proposal Preparation Module and follow the format instructions specified in Chapter II.C.2.j. Collaborative activities that are identified in the budget should follow the instructions in Chapter II.D.3.

(v) Group Proposals

NSF encourages submission of proposals by groups of investigators; often these are submitted to carry out interdisciplinary projects. Unless stipulated in a specific program solicitation, however, such proposals will be subject to the 15-page Project Description limitation established in Section (ii) above. PIs who wish to exceed the established page limitations for the Project Description must request and receive a deviation in advance of proposal submission. (Chapter II.A contains information on deviations.)

(vi) Proposals for Renewed Support

See Chapter V for guidance 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. (See also Chapter II.C.2.d(iii)(d)) If the proposer has a website address readily available, that information should be included in the citation. It is not NSF's intent, however, to place an undue burden on proposers to search for the URL of every referenced publication. Therefore, inclusion of a website address is optional. A proposal that includes reference citation(s) that do not specify a URL is not considered to be in violation of NSF proposal preparation guidelines and the proposal will still be reviewed.

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

Text from the PAPPG

26



#### **Biographical Sketches** (Required)

- Biographical sketches are required for all senior project personnel and must not exceed three pages in length, per individual.
- The Biographical Sketch is used to assess how well qualified the individual, team, or organization is to conduct the proposed activities.

#### f. Biographical Sketch(es)<sup>17</sup>

#### (i) Senior Personnel

This section of the proposal is used to assess how well qualified the individual, team, or organization is to conduct the proposed activities.

A separate biographical sketch (limited to three pages) must be provided through use of an NSF-approved format<sup>18</sup>, for each individual designated as senior personnel. (See Exhibit II-3 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 any personal information in the biographical sketch. This includes items such as: home address; home telephone, fax, or cell phone numbers; home e-mail address; driver's license number; marital status; personal hobbies; and the like. Such personal information is not appropriate for the biographical sketch and is not relevant to the merits of the proposal. NSF is not responsible or in any way liable for the release of such material. (See also Chapter III.H).

#### (a) Professional Preparation

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

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

#### (b) Appointments

A list, in reverse chronological order by start date of all the individual's academic, professional, or institutional appointments, beginning with the current appointment. Appointments include any titled academic, professional, or institutional position whether or not remuneration is received, and whether fulltime, part-time, or voluntary (including adjunct, visiting, or honorary).

#### (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 products must be citable and accessible including but not limited to publications, data sets, software, patents, and copyrights. Unacceptable products are unpublished documents not yet submitted for publication, invited lectures, and additional lists of products. Only the list of ten will be used in the review of the proposal.

Each product must include full citation information including (where applicable and practicable) names of all authors, date of publication or release, title, title of enclosing work such as journal or book, volume, issue, pages, website and URL, or other Persistent Identifier.

If only publications are included, the heading "Publications" may be used for this section of the Biographical Sketch.

#### (d) Synergistic Activities

A list of up to five distinct examples that demonstrates the broader impact of the individual's professional and scholarly activities that focus on the integration and transfer of knowledge as well as its creation. Synergistic activities should be specific and must not include multiple examples to further describe the chick the provided that are activities in the provided that the second transfer of transfer of the second transfer of transfer of

• An NSF-approved format must be used for all senior project personnel.

#### Budget (Required)

- Each proposal must contain a budget for each year of support requested. The budget justification should be no more than five pages for all years of the project combined.
- Proposals containing subawards must include a separate budget justification of no more than five pages for each subaward.

SUMMARY PROPOSAL BUDG	FT		FOP	NSEL	JSE ONL	
		DD	OPOSAL		DURATIC	
ational Science Foundation			JFUSAL		Proposed	-
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR		A	WARD NO		Порозос	Giana
Jeremy Leffler						
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)	CAL	NSF Fund Person-mo	nths SUMR	Requi	unds ested By poser	Funds granted by (if different
1. Jeremy Leffler - Principal Inv	2.0				16,000	
2.						
3.						
4.						
5.						
6. ( ) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.0				0	
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	2.0				16,000	
3. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. ( 1 ) POST DOCTORAL SCHOLARS	12.0				10,000	
2. ( 0 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.0				0	
3. ( 0 ) GRADUATE STUDENTS					0	
4. ( 5 ) UNDERGRADUATE STUDENTS					10,000	
5. ( 0 ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					0	
6. ( <b>0</b> ) OTHER					0	
TOTAL SALARIES AND WAGES (A + B)					36,000	
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					0	
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEED	DING \$5,0	\$ 0.0			36,000	
TOTAL EQUIPMENT	DING \$5,1				0	
TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. U.S. POSSESSIONS)	DING \$5,0				0	
TOTAL EQUIPMENT	DING \$5,				0	
TOTAL EQUIPMENT	DING \$5,				0	
TOTAL EQUIPMENT  E. TRAVEL  1. DOMESTIC (INCL. U.S. POSSESSIONS)  2. INTERNATIONAL  5. PARTICIPANT SUPPORT COSTS 1. STIPENDS  5.000  1. STIPENDS  5.000  1. STIPENDS  5.000  1. STIPENDS  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000  5.000 5.000  5.000  5.000  5.000 5.000 5.000 5.	DING \$5,				00000	
TOTAL EQUIPMENT           E. TRAVEL         1. DOMESTIC (INCL. U.S. POSSESSIONS)		\$ 0.0	s		0	
TOTAL EQUIPMENT		\$ 0.0	S		0 0 0 9,500	
TOTAL EQUIPMENT  E. TRAVEL  1. DOMESTIC (INCL. U.S. POSSESSIONS)  2. INTERNATIONAL  E. PARTICIPANT SUPPORT COSTS  1. STIPENDS  5.   3. SUBSISTENCE  1.000  4. OTHER  500  TOTAL NUMBER OF PARTICIPANTS  1. MATERIALS AND SUPPLIES  1. MATERIALS AND SUPPLIES		\$ 0.0	s		0 0 0 9,500	
TOTAL EQUIPMENT  E. TRAVEL  1. DOMESTIC (INCL. U.S. POSSESSIONS)  2. INTERNATIONAL  F. PARTICIPANT SUPPORT COSTS  1. STIPENDS  5. 000  2. TRAVEL  3. 000  3. SUBSISTENCE  500  TOTAL NUMBER OF PARTICIPANTS  (10)  TOTAL PAR  6. OTHER  1. MATERIALS AND SUPPLIES  2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION		\$ 0.0	s		0 0 0 9,500 1,500 20,000	
TOTAL EQUIPMENT           E. TRAVEL         1. DOMESTIC (INCL. U.S. POSSESSIONS)		\$ 0.0	s		0 0 0 9,500 1,500 20,000 10,000	
TOTAL EQUIPMENT  E. TRAVEL 1. DOMESTIC (INCL. U.S. POSSESSIONS)  2. INTERNATIONAL  E. PARTICIPANT SUPPORT COSTS 1. STIPENDS 5. 000 2. TRAVEL 3.000 4. OTHER 500 4. OTHER 500 500 500 500 500 500 500 500 500 50		\$ 0.0	S		0 0 0 9,500 1,500 20,000 60,000	
TOTAL EQUIPMENT           E. TRAVEL         1. DOMESTIC (INCL. U.S. POSSESSIONS)		\$ 0.0	s		0 0 0 9,500 1,500 20,000 60,000 0	
TOTAL EQUIPMENT  E. TRAVEL 1. DOMESTIC (INCL. U.S. POSSESSIONS) 2. INTERNATIONAL  E. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3.000 3. SUBSISTENCE 3.000 4. OTHER 500 TOTAL NUMBER OF PARTICIPANTS (10) TOTAL PARTIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER		\$ 0.0	S		0 0 0 9,500 1,500 20,000 10,000 60,000 0 0	
TOTAL EQUIPMENT   TOTAL EQUIPMENT  TRAVEL  PARTICIPANT SUPPORT COSTS  SUBJISTENCE  TRAVEL  TRAVEL  TOTAL NUMBER OF PARTICIPANTS  OU  TOTAL NUMBER OF PARTICIPANTS  OU  TOTAL NUMBER OF PARTICIPANTS  OU  TOTAL SUPPLIES  C. OTHER DIRECT COSTS  C. ONUER SERVICES  C. OTHER  TOTAL OTHER DIRECT COSTS		\$ 0.0	S		0 0 0 0 1,500 20,000 10,000 60,000 0 91,500	
TOTAL EQUIPMENT  E. TRAVEL 1. DOMESTIC (INCL. U.S. POSSESSIONS) 2. INTERNATIONAL  E. PARTICIPANT SUPPORT COSTS 1. STIPENDS 2. TRAVEL 3.000 3. SUBSISTENCE 3.000 4. OTHER 500 TOTAL NUMBER OF PARTICIPANTS (10) TOTAL PARTIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER		\$ 0.0	S		0 0 0 9,500 1,500 20,000 10,000 60,000 0 0	
TOTAL EQUIPMENT  TOTAL EQUIPMENT  TRAVEL  PARTICIPANT SUPPORT COSTS  SUBSISTENCE  ACCOMPLICATION  ACCOMPLICATION COSTS  CONSULTANT SERVICES  COMPLICATION COSTS/DOCUMENTATION/DISSEMINATION  CONSULTANT SERVICES  SUBAWARDS  CONTHER  TOTAL DIRECT COSTS  CONSULTANT SERVICES  COMPLICATION  COMPLICATION COSTS  CONSULTANT SERVICES  COMPLICATION  COMPLICATION COSTS  CONSULTANT SERVICES  COMPLICATION  CONSULTANT SERVICES  COMPLICATION  COMPLICATION COSTS  CONSULTANT SERVICES  COMPLICATION  COMPLICATION COSTS  CONSULTANT SERVICES  COMPLICATION  C		\$ 0.0	\$ 		0 0 0 1,500 20,000 60,000 0 91,500 37,000	
TOTAL EQUIPMENT  E. TRAVEL 1. DOMESTIC (INCL. U.S. POSSESSIONS)  2. INTERNATIONAL  PARTICIPANT SUPPORT COSTS 1. STIPENDS 5. 3,000 2. TRAVEL 3. 000 3. SUBSISTENCE 1,000 4. OTHER 500 4. OTHER 500 5. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS 1. TOTAL DIRECT COSTS 4. TOTAL DIRECT COSTS 5. TOTAL OTHER DIRECT COSTS 5. TOTAL OTHER DIRECT COSTS 5. TOTAL OTHER DIRECT COSTS 5. TOTAL DIRECT CO		\$ 0.0	S		0 0 0 0 1,500 20,000 10,000 60,000 0 91,500	

Example from Research.gov



# **Budgetary Guidelines**

**Information regarding budgetary guidelines can be found in PAPPG 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)



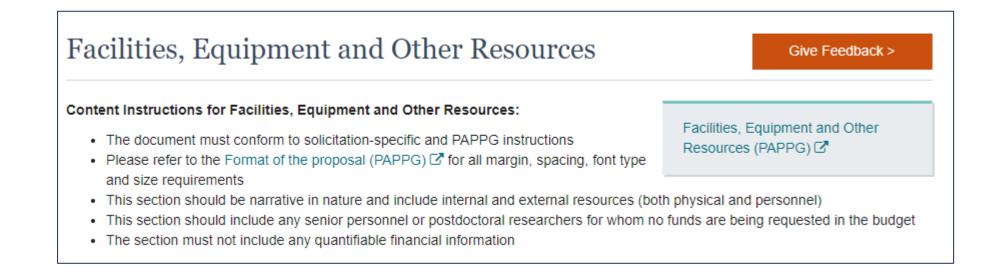
# **NSF Cost Sharing Policy**

- 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 and will not be visible in Research.gov.
- Organizations may, at their own discretion, continue to contribute any amount of voluntary uncommitted cost sharing to NSF-sponsored projects.



#### 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.





#### Current and Pending Support (Required)

- This section of the proposal calls for information on all current and pending support for ongoing projects and proposals.
- NSF uses the information to assess the capacity of the individual to carry out the research as proposed as well as to help assess any potential overlap/duplication.
- Current and Pending Support must be provided through use of an NSF-approved format.

#### n. Current and Pending Support<sup>32</sup>

(i) This section of the proposal is used to assess the capacity of the individual to carry out the research as proposed, as well as to help assess any potential overlap/duplication with the project being proposed.

(ii) Current and pending support information must be separately provided through use of an NSFapproved format<sup>33</sup>, for each individual designated as senior personnel on the proposal. Current and pending support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value, except as noted in paragraph (v) below. Current and pending support also includes in-kind contributions (such as



<sup>&</sup>lt;sup>32</sup> A table entitled, *NSF Pre-award and Post-award Disclosures Relating to the Biographical Sketch and Current and Pending Support*, has been developed to assist users in completion of these sections of the proposal.

<sup>&</sup>lt;sup>33</sup> A set of Frequently Asked Questions regarding the NSF-approved formats has been developed to assist users in completion of this section of the proposal.

### **Pre-award and Post-award Disclosures**

#### NSF Pre-award and Post-award Disclosures<sup>1/2/3</sup> Relating to the Biographical Sketch and Current and Pending Support April 20, 2022

#### Table Key

• = for new support only

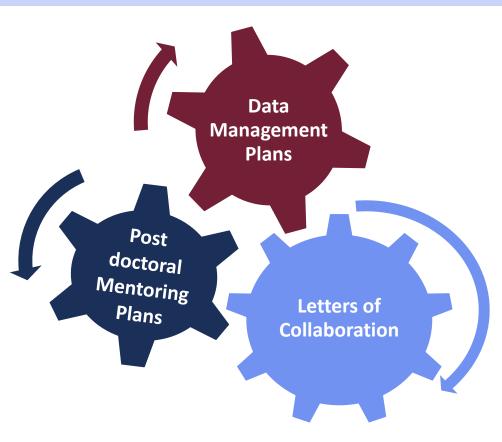
If undisclosed at the time of proposal submission

Type of Activity	<b>Biographical Sketch</b>	Current & Pending Support	Facilities, Equipment & Other Resources	Project Reports	Post-Award Information Term & Condition	Disclosure Not Required
Undergraduate, graduate, and postdoctoral training, including location, major/area and degree and year	~					
Academic, professional <sup>4</sup> or institutional appointments, whether or not remuneration is received, and, whether full-time, part-time, or voluntary	~					
All projects (including this project) currently under consideration from whatever source, and all ongoing projects, irrespective of whether support is provided through the proposing organization, another organization or directly to the individual		~		∕*	~◆	
In-kind contributions that support the research activity for use on the project/proposal being proposed			~			



#### **Special Information and Supplementary Documentation**

This section is used for the required data management plan, postdoctoral mentoring plan and other pertinent supplementary information, such as letters of collaboration; more information can be found in the PAPPG, Chapter II.C.2.j.





### Letter of Collaboration

#### Letter should consist of a single-sentence statement of collaboration:

- "If the proposal submitted by Dr. [name of the PI] entitled [proposal title] is selected for funding by the NSF, it is my intent to collaborate and/or commit resources as detailed in the Project Description or the Facilities, Equipment and Other Resources section of the proposal."
- Must NOT recommend or endorse PI or project

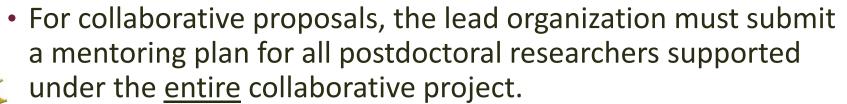
All relevant collaborative activities should be described in the Project Description, or in the Facilities, Equipment and Other Resources pages, such as:

- Intellectual contributions to the project
- Permission to access a site, use instrumentation or facility
- Offer to furnish samples / materials for research
- Logistical support / evaluation services

#### Mentoring of U.S. students at a foreign site, if applicable

# **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.
- 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.







# Mentoring for Postdoctoral Researchers (cont'd)

#### 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.





## **Data Management Plan Requirements**

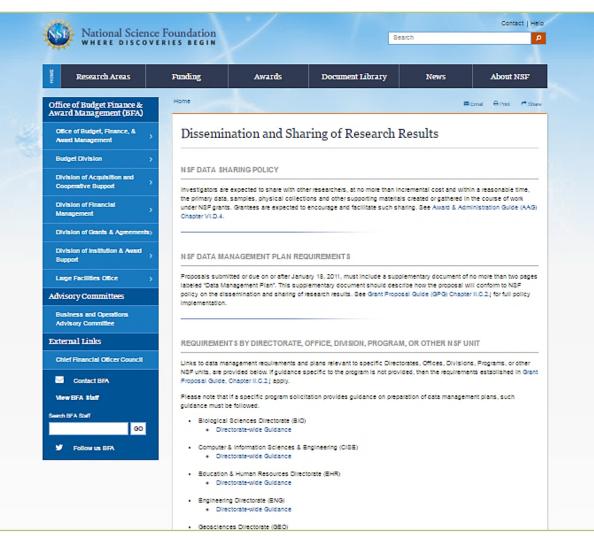




- All proposals are required to include, as a supplementary doc, a Data Management Plan of up to two pages.
- Plan should describe how the proposal will conform to NSF policy on dissemination and sharing of research results.
- A valid Data Management Plan may include only the statement that no detailed plan is needed, as long as 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**

#### www.nsf.gov/bfa/dias/policy/dmp.jsp





### **For More Information**

#### "Ask Early, Ask Often!"

- nsf.gov/staff
- nsf.gov/staff/orglist.jsp
- nsf.gov/about/career\_opps/rotators/index.jsp



