



SPRING 2023 NSF

VIRTUAL GRANTS CONFERENCE

JUNE 5-8, 2023

Proposal Preparation



Panelists

Jean Feldman

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

Bogdan Mihaila

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

Eleanor Sayre

Program Director, Division of Undergraduate Education; Directorate for STEM Education



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



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Funding search

Search

All fields 

 Search









710 results

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This Funding Search contains only current opportunities. [Archived funding opportunities](#) are hosted at the legacy NSF website.

Please let us know what you think of the new search by completing a [three-question survey](#), or by emailing us at beta-nsf-feedback@nsf.gov

Filter

Limited submissions 	Award type 	Advancing diversity 
Directorate 	Division 	Education level 

Show only NSF-wide/cross-directorate opportunities (73)

Sort: [New opportunities](#) 

Award Type	Opportunity Details	Next Required Due Date
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Simple Search

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Search award for:

Search



Use double quotes for exact search. For example "water vapor".

Active Awards

Expired Awards



Another Way to Find Funding

GRANTS.GOV **SEARCH GRANTS** | HOME | LEARN GRANTS | APPLICANTS | GRANTORS | SYSTEM-TO-SYSTEM | FORMS | CONNECT | SUPPORT

SEARCH: Grant Opportunities | Enter Keyword... | GO

GRANTS.GOV > Search Grants

SEARCH GRANTS

BASIC SEARCH CRITERIA:
Keyword(s):
Opportunity Number:
CFDA:
SEARCH

OPPORTUNITY STATUS:
 Forecasted (0)
 Posted (262)
 Closed (229)
 Archived (610)

FUNDING INSTRUMENT TYPE:
 All Funding Instruments
 Grant (262)

ELIGIBILITY:
 All Eligibilities
 Others (see text field entitled 'Additional Information on Eligibility' for clarification) (138)
 Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled 'Additional Information on Eligibility' (124)

AGENCY: [X] All National Science Foundation

Search Tips | Export Detailed Data | **Save Search »**

SORT BY: Posted Date (Descending) | Update Sort | **DATE RANGE:** All Available | Update Date Range

1 - 25 OF 262 MATCHING RESULTS: | < Previous | 1 2 3 4 5 6 ... 11 Next >

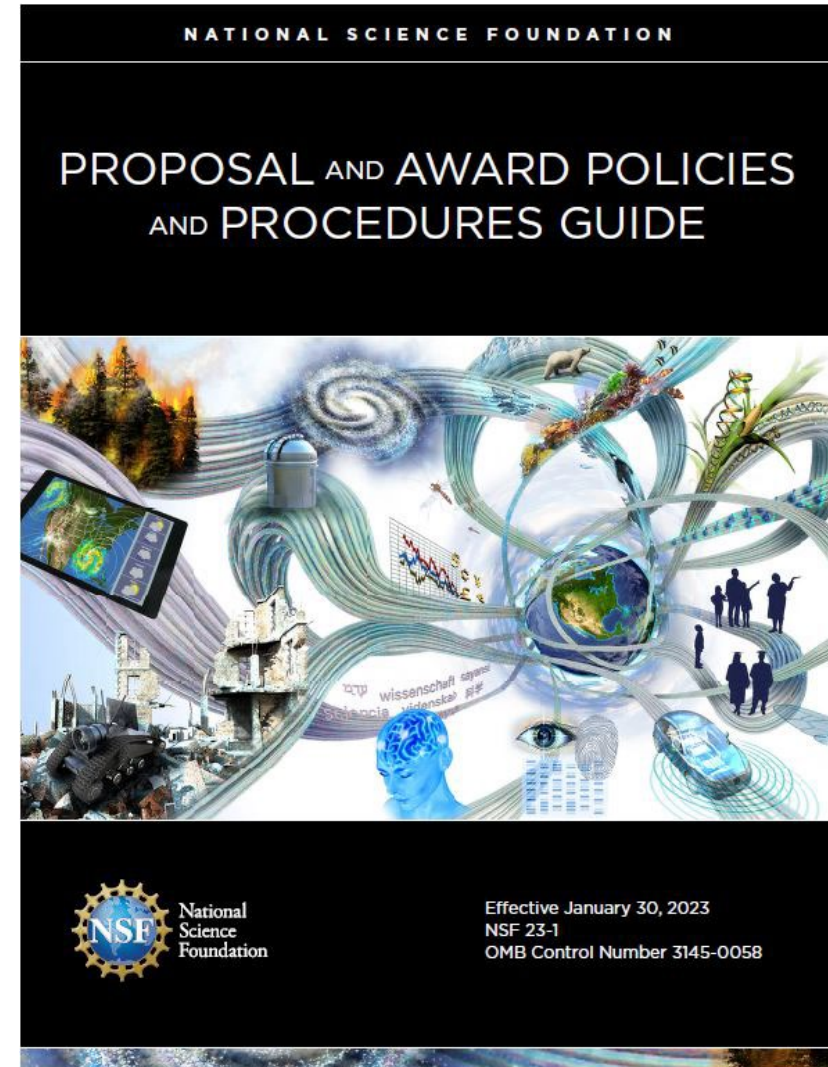
Opportunity Number	Opportunity Title	Agency	Opportunity Status	Posted Date ↓	Close Date
23-581	Cultural Anthropology Program Senior Research Awards	NSF	Posted	04/22/2023	08/15/2023
23-580	Infrastructure Capacity for Biological Research	NSF	Posted	04/21/2023	
23-578	Infrastructure Innovation for Biological Research	NSF	Posted	04/21/2023	
23-577	Faculty Development in geoSpace Science	NSF	Posted	04/14/2023	09/18/2023
PD-23-1407	Combustion and Fire Systems	NSF	Posted	04/14/2023	
23-576	Computer and Information Science and Engineering (CISE) Research Initiation Initiative	NSF	Posted	04/07/2023	09/20/2023
23-575	Centers for Chemical Innovation	NSF	Posted	04/06/2023	10/18/2023
PD-23-1179	Nanoscale Interactions	NSF	Posted	04/05/2023	
PD-23-1406	Thermal Transport Processes	NSF	Posted	04/05/2023	
PD-23-1415	Particulate and Multiphase Processes	NSF	Posted	04/05/2023	
PD-23-1417	Interfacial Engineering	NSF	Posted	04/05/2023	
PD-23-7643	Environmental Sustainability	NSF	Posted	04/05/2023	
PD-23-7236	Biophotonics	NSF	Posted	04/05/2023	
23-574	CyberCorps(R) Scholarship for Service	NSF	Posted	04/05/2023	07/17/2023
PD-23-7644	Electrochemical Systems	NSF	Posted	04/05/2023	
23-573	Archaeometry	NSF	Posted	04/05/2023	12/01/2023



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





Categories of Funding Opportunities



Program Descriptions

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

Program Announcements

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

Program Solicitations

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

Broad Agency Announcements

Proposals for a **Broad Agency Announcement (BAA)** must follow the instructions in the BAA.

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

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)

NSF INCLUDES Alliances

PROGRAM SOLICITATION

NSF 18-529



National Science Foundation

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorate for Education & Human Resources

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of Integrative Activities

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

April 04, 2018

April 02, 2019

Program Solicitation
Number

NSF Directorate(s)
and Offices
providing funding
for this opportunity



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: Cooperative Agreement

Estimated Number of Awards: 1 to 3

In FY 2018, up to three (3) NSF INCLUDES Alliance awards will be made pending the availability of funds.

Anticipated Funding Amount: \$8,500,000

In FY 2018, approximately \$8.5 million is available to fund new NSF INCLUDES Alliance awards.



Sample Cover Page of a Solicitation

Eligibility
information for
institutions/PIs
submitting
proposals

Eligibility Information

Who May Submit Proposals:

The categories of proposers eligible to submit proposals to the National Science Foundation are identified in the *NSF Proposal & Award Policies & Procedures Guide (PAPPG)*, Chapter I.E.

Who May Serve as PI:

There are no restrictions or limits.

Limit on Number of Proposals per Organization:

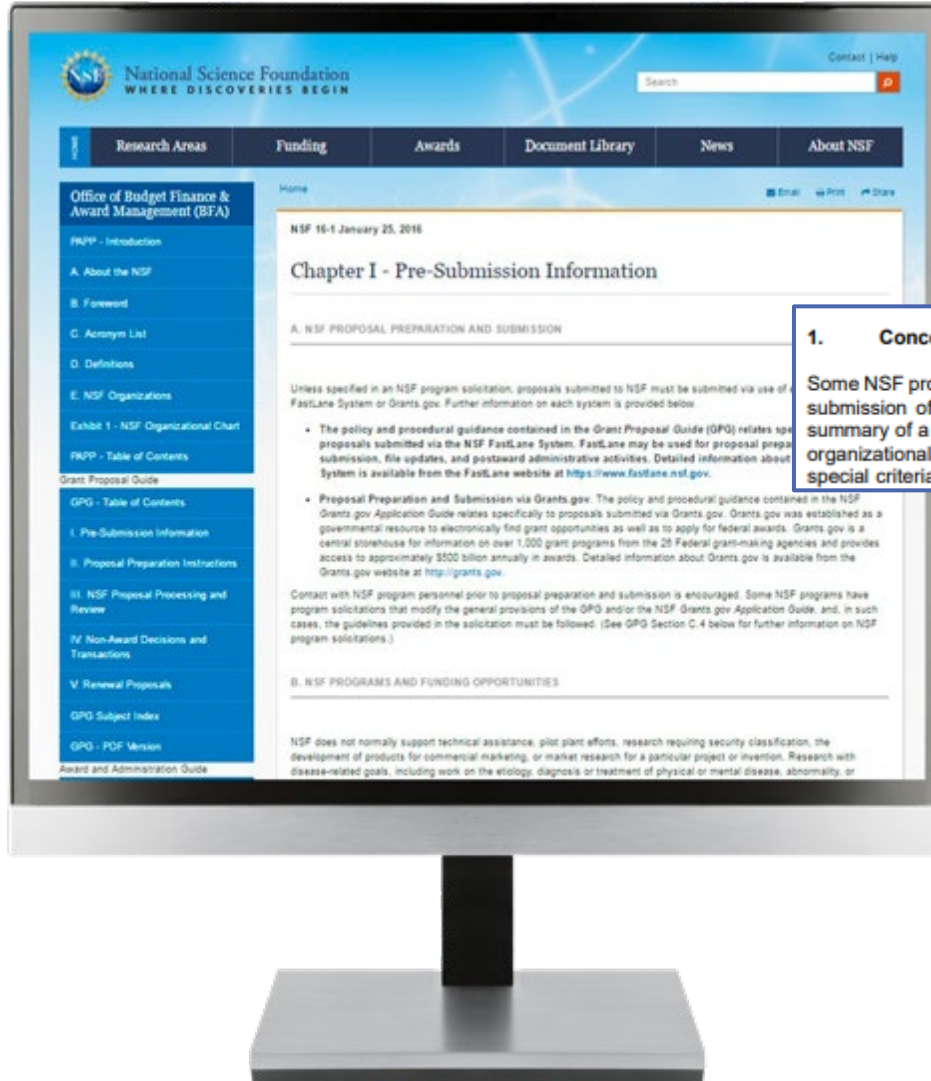
An organization may serve as the lead institution on only one Alliance proposal. Organizations that serve as the lead institution on an Alliance proposal may still participate in other Alliance proposals as a collaborating institution. In the event that an organization exceeds the limit of one proposal as lead, proposals received within the limit will be accepted based on earliest date and time of proposal submission. **No exceptions will be made.**

Limit on Number of Proposals per PI or Co-PI:

An individual may serve as a PI or Co-PI on only two (2) NSF INCLUDES Alliance proposals. Proposals that exceed the PI or Co-PI limit will be returned without review. In the event that an individual exceeds this limit, proposals received within the limit will be accepted based on earliest date and time of proposal submission. **No exceptions will be made.**



Types of Submissions



Concept Outlines

Required for some categories of funding opportunities

1. Concept Outlines

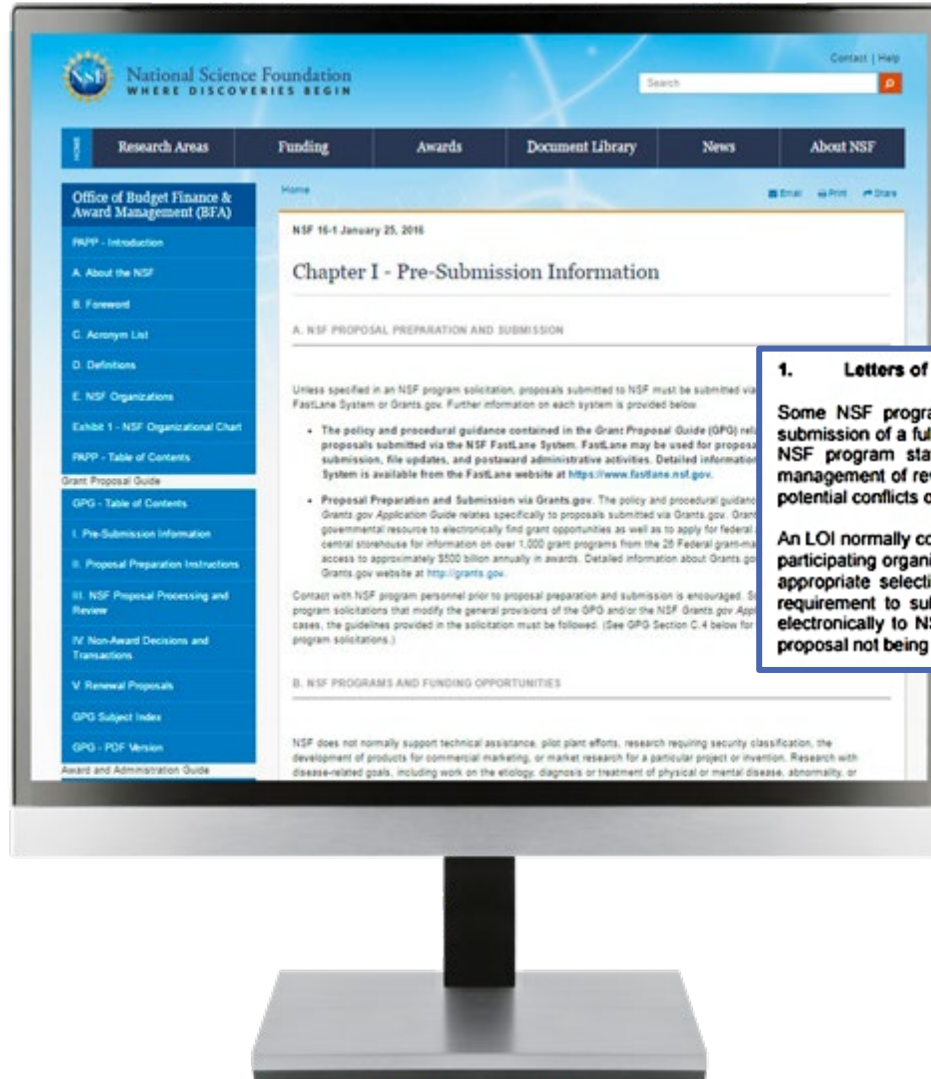
Some NSF proposal types (see Chapter II.E for additional information) or funding opportunities may require submission of a concept outline prior to submission of a full proposal. A concept outline is a concise summary of a project idea that contains information about the prospective PI(s), potentially germane NSF organizational unit(s), project title, keywords, and brief narrative descriptions of the idea and fit to any special criteria required for the proposal type or funding opportunity. The primary purposes of requiring a



Types of Submissions

LETTERS OF INTENT

Enables better management of reviewers and panelists



1. Letters of Intent

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

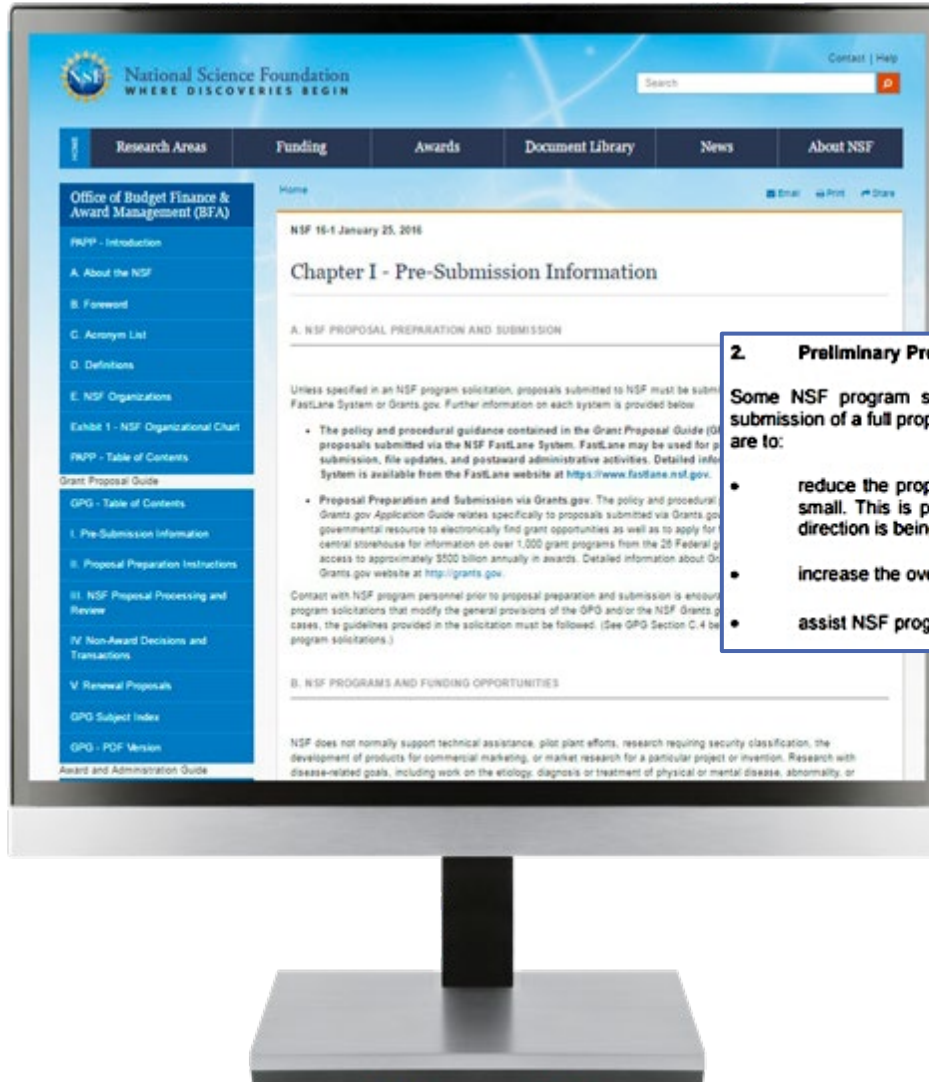
An LOI normally contains the Principal Investigator's (PI's) and co-PI's names, a proposed title, a list of possible participating organizations (if applicable), and a synopsis that describes the work in sufficient detail to permit an appropriate selection of reviewers. An LOI is not externally evaluated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



Types of Submissions

PRELIMINARY PROPOSALS

Sometimes required, sometimes optional



2. Preliminary Proposals

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

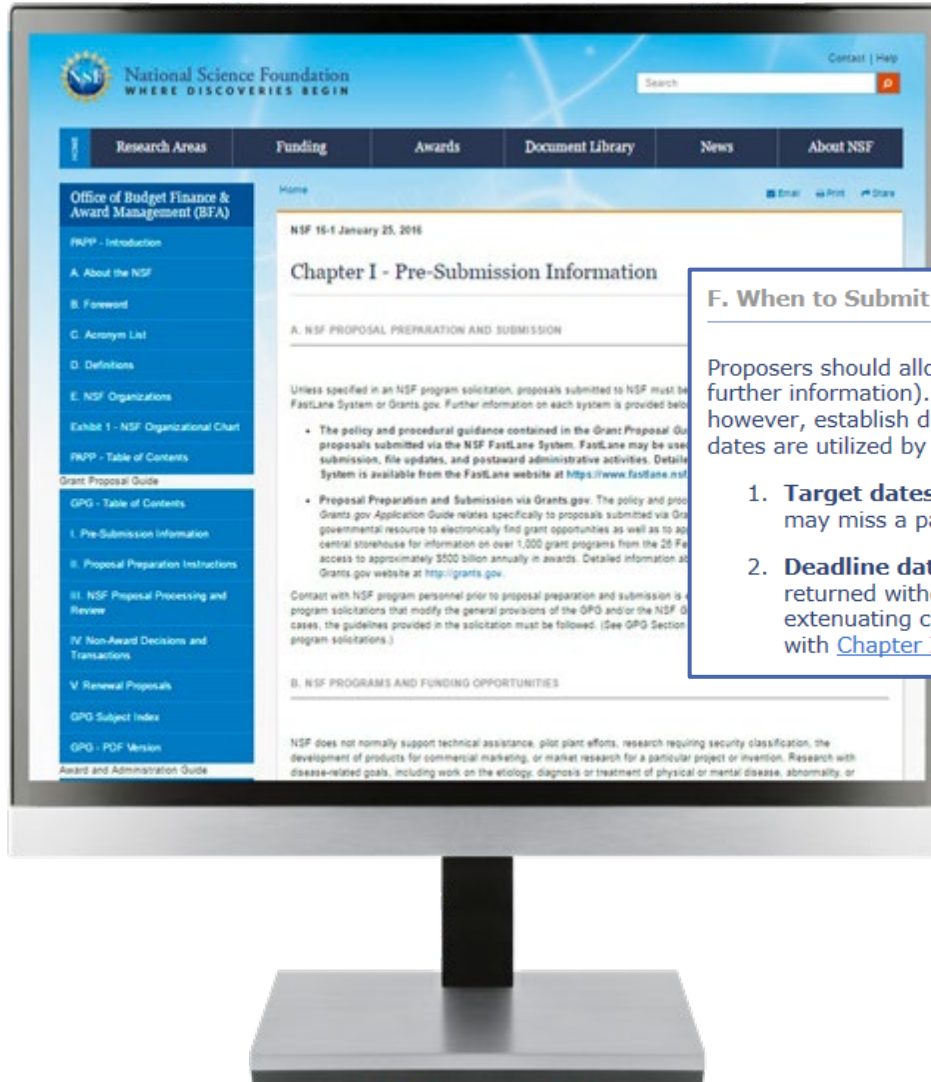
- reduce the proposers' unnecessary effort in proposal preparation when the chance of success is very small. This is particularly true of exploratory initiatives when the community senses that a major new direction is being identified, or competitions that will result in a small number of awards;
- increase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



When to Submit Proposals

NO DEADLINES

Proposals may be submitted at any time



F. When to Submit Proposals

Proposers should allow adequate time for processing of proposals (see [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:

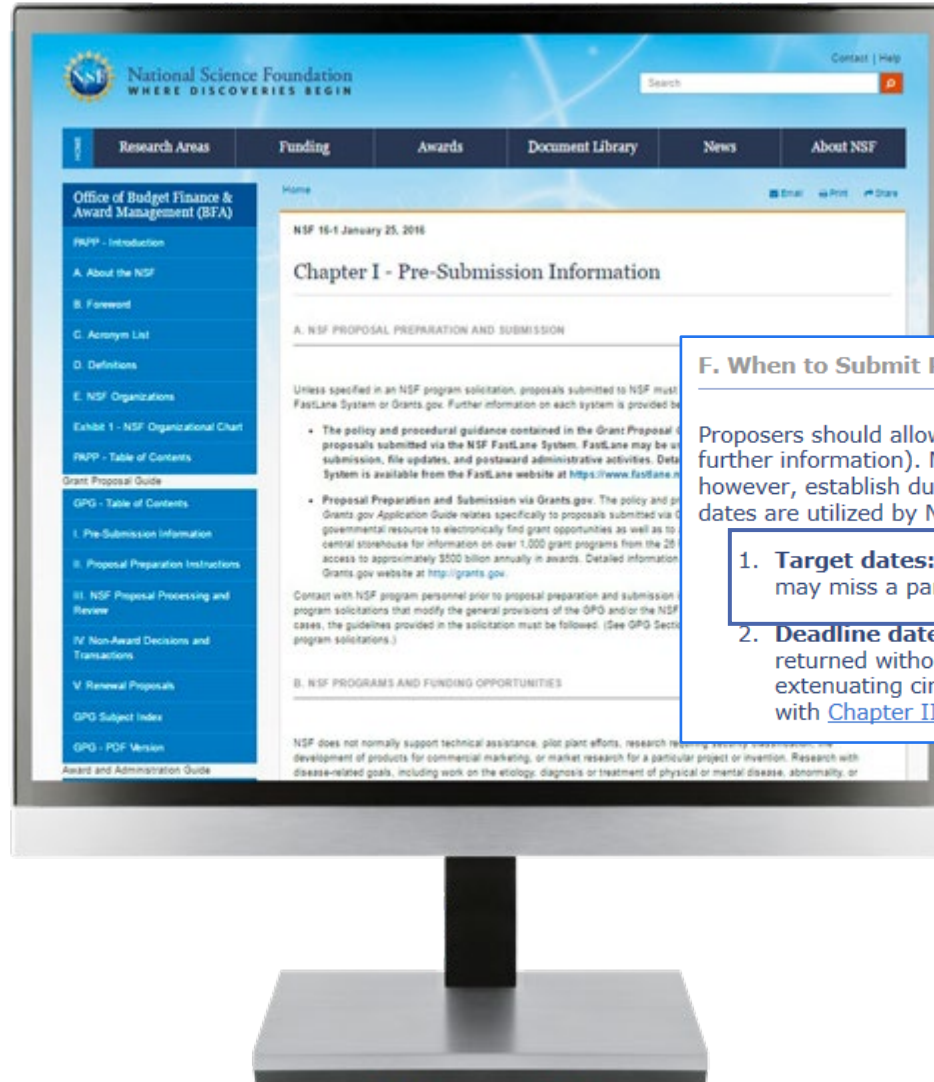
1. **Target dates:** dates after which proposals will still be accepted, although they may miss a particular panel or committee meeting.
2. **Deadline dates:** dates after which proposals will not be accepted or will be returned without review by NSF. The deadline date will be waived only in extenuating circumstances. Such a deviation only may be authorized in accordance with [Chapter II.A](#).



When to Submit Proposals

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 processing of proposals (see [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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When to Submit Proposals

DEADLINE DATES

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



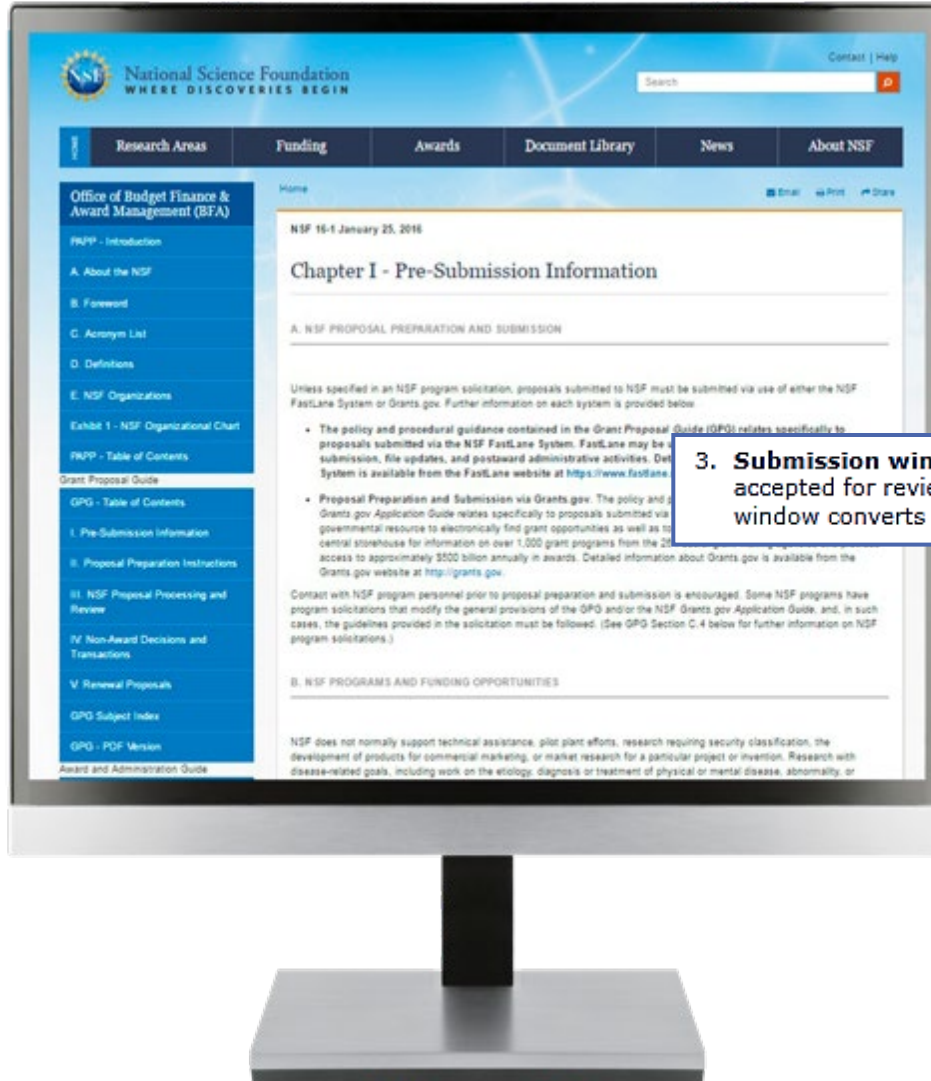
F. When to Submit Proposals

Proposers should allow adequate time for processing of proposals (see [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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2. **Deadline dates:** dates after which proposals will not be accepted or will 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 [Chapter II.A](#).



When to Submit Proposals



SUBMISSION WINDOWS

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

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.



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 provided by the organization
- Proposal certifications provided by senior personnel





Required Sections of a Research Proposal

- Cover Sheet
- Project Summary
- Project Description
- References Cited
- Budget
- Budget Justification
- Facilities, Equipment and Other Resources
- Senior Personnel Documents
 - Biographical Sketch(es)
 - Current and Pending (Other) Support
 - Collaborators and Other Affiliations Information (Single Copy Document)
- Data Management Plan
- Postdoctoral Mentoring Plan (if applicable)

Proposals that do not contain these required sections may not be accepted





Sections of an NSF Proposal

Cover Sheet (Required)

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

COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION					
PROGRAM ANNOUNCEMENT/SOLICITATION NO./DUE DATE NSF 18-561 10/01/18			<input type="checkbox"/> Special Exception to Deadline Date Policy		FOR NSF USE ONLY NSF PROPOSAL NUMBER
FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.) CHE - Chem Struct,Dynmcs&Mechansms B					
DATE RECEIVED	NUMBER OF COPIES	DIVISION ASSIGNED	FUND CODE	DUNS# (Data Universal Numbering System)	FILE LOCATION
09/19/2018	1			0101010101	04/03/2019 8:26am S
EMPLOYER IDENTIFICATION NUMBER (EIN) OR TAXPAYER IDENTIFICATION NUMBER (TIN)		SHOW PREVIOUS AWARD NO. IF THIS IS <input checked="" 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 DEMO			ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE		
AWARDEE ORGANIZATION CODE (IF KNOWN) 0101010101					
NAME OF PRIMARY PLACE OF PERF TBD			ADDRESS OF PRIMARY PLACE OF PERF, INCLUDING 9 DIGIT ZIP CODE DEMO		
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 THEN CHECK HERE <input type="checkbox"/> FOR-PROFIT ORGANIZATION <input type="checkbox"/> WOMAN-OWNED BUSINESS					
TITLE OF PROPOSED PROJECT Molecular Information and...					
REQUESTED AMOUNT \$	PROPOSED DURATION (1-60 MONTHS) 36 months	REQUESTED STARTING DATE 04/01/19	SHOW RELATED PRELIMINARY PROPOSAL NO. IF APPLICABLE		
THIS PROPOSAL INCLUDES ANY OF THE ITEMS LISTED BELOW					
<input type="checkbox"/> BEGINNING INVESTIGATOR		<input type="checkbox"/> HUMAN SUBJECTS Human Subjects Assurance Number _____ Exemption Subsection _____ or IRB App. Date _____			
<input type="checkbox"/> DISCLOSURE OF LOBBYING ACTIVITIES		<input type="checkbox"/> INTERNATIONAL ACTIVITIES: COUNTRY/COUNTRIES INVOLVED _____			
<input type="checkbox"/> PROPRIETARY & PRIVILEGED INFORMATION					
<input type="checkbox"/> HISTORIC PLACES					
<input type="checkbox"/> VERTEBRATE ANIMALS IACUC App. Date _____ PHS Animal Welfare Assurance Number _____		<input checked="" type="checkbox"/> COLLABORATIVE STATUS Not a collaborative proposal			
<input checked="" type="checkbox"/> TYPE OF PROPOSAL Research					



Sections of an NSF Proposal

Cover Sheet Checkboxes

- Beginning Investigator (BIO Directorate Only)
- Disclosure of Lobbying Activities
- Proprietary or Privileged Information
- Special Exceptions to the Deadline Date Policy
- Historic Place
- Live Vertebrate Animals
- Human Subjects
- Funding of an International Branch Campus of a US IHE
- Funding of a Foreign Organization or Foreign Individual
- International Activities
- Potential Life Sciences Dual Use Research of Concern
- Off-Campus or Off-Site Research

COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION					
PROGRAM ANNOUNCEMENT/SOLICITATION NO./DUE DATE NSF 22-1				<input type="checkbox"/> Special Exception to Deadline Date Policy	
FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.) CHE - Software Institutes				FOR NSF USE ONLY NSF PROPOSAL NUMBER	
DATE RECEIVED	NUMBER OF COPIES 1	DIVISION ASSIGNED 03090000 CHE	FUND CODE 8004	UEI (Unique Entity Identifier) GGF7K5B4JSL5	FILE LOCATION
EMPLOYER IDENTIFICATION NUMBER (EIN) OR TAXPAYER IDENTIFICATION NUMBER (TIN) 530206152	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 NATIONAL SCIENCE FOUNDATION			ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE 2415 EISENHOWER AVE ALEXANDRIA, VA 22314-4684 US		
AWARDEE ORGANIZATION CODE (IF KNOWN) 4102852000					
NAME OF PRIMARY PLACE OF PERF National Science Foundation			ADDRESS OF PRIMARY PLACE OF PERF, INCLUDING 9 DIGIT ZIP CODE 2415 Eisenhower Avenue Alexandria, VA 22314-4684 US		
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 THEN CHECK HERE <input type="checkbox"/> FOR-PROFIT ORGANIZATION <input type="checkbox"/> WOMAN-OWNED BUSINESS					
TITLE OF PROPOSED PROJECT Test Research					SHOW LETTER OF INTENT ID IF APPLICABLE
REQUESTED AMOUNT \$ 0	PROPOSED DURATION (1-60 MONTHS) 36 months	REQUESTED STARTING DATE 09/01/2022	SHOW RELATED PRELIMINARY PROPOSAL NO. IF APPLICABLE		
THIS PROPOSAL INCLUDES ANY OF THE ITEMS LISTED BELOW					
<input type="checkbox"/> BEGINNING INVESTIGATOR <input type="checkbox"/> DISCLOSURE OF LOBBYING ACTIVITIES <input type="checkbox"/> PROPRIETARY & PRIVILEGED INFORMATION <input type="checkbox"/> HISTORIC PLACES <input type="checkbox"/> VERTEBRATE ANIMALS IACUC App. Date _____ PHS Animal Welfare Assurance Number _____			<input type="checkbox"/> HUMAN SUBJECTS Human Subjects Assurance Number _____ Exemption Subsection _____ or IRB App. Date _____ <input type="checkbox"/> FUNDING OF INTL BRANCH CAMPUS OF U.S. IHE <input type="checkbox"/> FUNDING OF FOREIGN ORGANIZATION OR FOREIGN INDIVIDUAL <input type="checkbox"/> INTERNATIONAL ACTIVITIES: COUNTRY/COUNTRIES INVOLVED		
<input checked="" type="checkbox"/> TYPE OF PROPOSAL Research			<input checked="" type="checkbox"/> COLLABORATIVE STATUS A collaborative proposal from one organization (PAPPG ILD.3.a)		
PIPD DEPARTMENT		PIPD POSTAL ADDRESS			



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 will not be accepted.

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

¹⁵If the proposal includes use of vertebrate animals, supplemental information is required. See Chapter II.D.4 for additional information.

¹⁶If the proposal includes use of human subjects, supplemental information is required. See Chapter II.D.5 for additional information.



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.

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 partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the US; 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.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 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;
- (b) the title of the project;



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.

(e) 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



Sections of an NSF Proposal

Budget & Budget Justification (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 BUDGET				YEAR 1		FOR NSF USE ONLY	
ORGANIZATION NSF				PROPOSAL NO.	DURATION (month)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Terry Demo				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL (PI/PI, Co-PIs, Faculty and Other Senior Associates (List each separately with title. A-T show number in brackets))				NSF Funds (PI/PI/PI/PI)	Funds Requested (by proposer)	Funds Granted by NSF (if different)	
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/PO NAME Terry Demo				FOR NSF USE ONLY			
ORG. REP. NAME* Terry Demo				INDIRECT COST RATE VERIFICATION			
				Date Checked	Date of Rate Used	Initial	CRG
				*ELECTRONIC SIGNATURES REQUIRED FOR REVISED BUDGET			



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)





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 [Give Feedback >](#)

Content Instructions for Facilities, Equipment and Other Resources:

- The document must conform to solicitation-specific and PAPPG instructions
- Please refer to the [Format of the proposal \(PAPPG\)](#) for all margin, spacing, font type and size requirements
- This section should be narrative in nature and include internal and external resources (both physical and personnel)
- This section should include any senior personnel or postdoctoral researchers for whom no funds are being requested in the budget
- The section must not include any quantifiable financial information

File Instructions for Facilities, Equipment and Other Resources:

- Only one file can be uploaded
- Your file should **not** contain page numbers, as they will be added automatically by the system
- Accepted file types include: PDF
- Maximum file size permitted is 10 MB

[Facilities, Equipment and Other Resources \(PAPPG\)](#)

[Browse for file to upload](#)



Sections of an NSF Proposal

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.
- An NSF-approved format must be used for all senior project personnel
- Effective October 23, 2023, use of SciENCv will be mandatory.

(i) Biographical Sketch(es)

Note: The mandate to use SciENCv only for preparation of the biographical sketch will go into effect for new proposals submitted or due on or after October 23, 2023. In the interim, proposers may continue to prepare and submit this document via use of SciENCv or the NSF fillable PDF. NSF, however, encourages the community to use SciENCv prior to the October 2023 implementation.

(a) 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 Biographical Sketch (limited to three pages)



Sections of an NSF Proposal

Current and Pending (Other) Support (Required)

- This section of the proposal calls for information on all current and pending (other) 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 (Other) Support must be provided through use of an NSF-approved format.
- Effective October 23, 2023, use of SciENCv will be mandatory.

(ii) Current and Pending (Other) Support

Note: The mandate to use SciENCv only for the preparation of Current and Pending (Other) Support information will go into effect for new proposals submitted or due on or after October 23, 2023. In the interim, proposers may continue to prepare and submit this document via use of SciENCv or the NSF fillable PDF. NSF, however, encourages the community to use SciENCv prior to the October 2023 implementation.

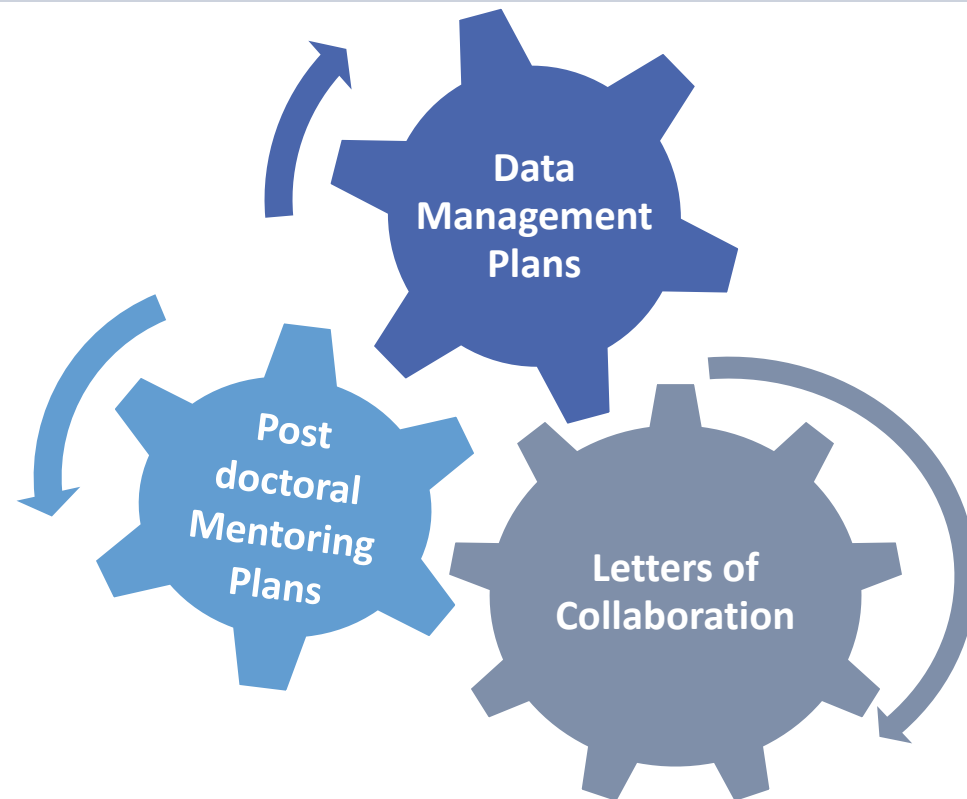
(a) Current and Pending (Other) Support^[30] information is used to assess the capacity of the individual to carry out the research as proposed and helps assess any potential scientific and budgetary overlap/duplication, as well as overcommitment with the project being proposed. Note that there is no page limitation for this section of the proposal, though some fields have character limitations for consistency and equity.



Sections of an NSF Proposal

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.D.2.i.





Letters 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.
- For collaborative proposals, the lead organization must submit a mentoring plan for all postdoctoral researchers supported under the entire collaborative project.





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.





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


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Preparing Your Data Management Plan

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 - [Data Management Plan](#)**
 - [Research Involving Live Vertebrate Animals](#)
 - [Research Involving Human Subjects](#)
- [Submitting Your Proposal](#)
- [How We Make Funding Decisions](#)
- [Additional Resources](#) 

The two-page data management plan is a required part of a proposal to the U.S. National Science Foundation. It describes how a proposal will follow NSF policy on managing, disseminating and sharing research results.

This page provides an overview of requirements for the data management plan. See the [Proposal and Award Policies and Procedures Guide \(PAPPG\) XI.D.4](#) for full guidance and for NSF's data sharing policy.

 **On this page**

- [NSF's data sharing policy](#)
- [What to include in your data management plan](#)
- [Questions?](#)



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)

