

SEEKING GRANT SUPPORT FROM
THE
NATIONAL SCIENCE
FOUNDATION



March 2016

**Office of Research and
Sponsored Programs
SUNY College at Old Westbury**

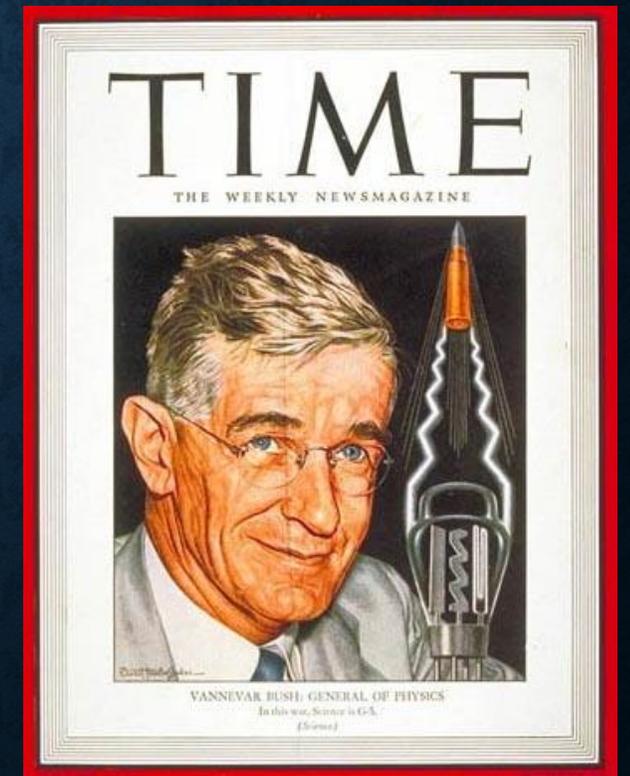
NSF at a glance...

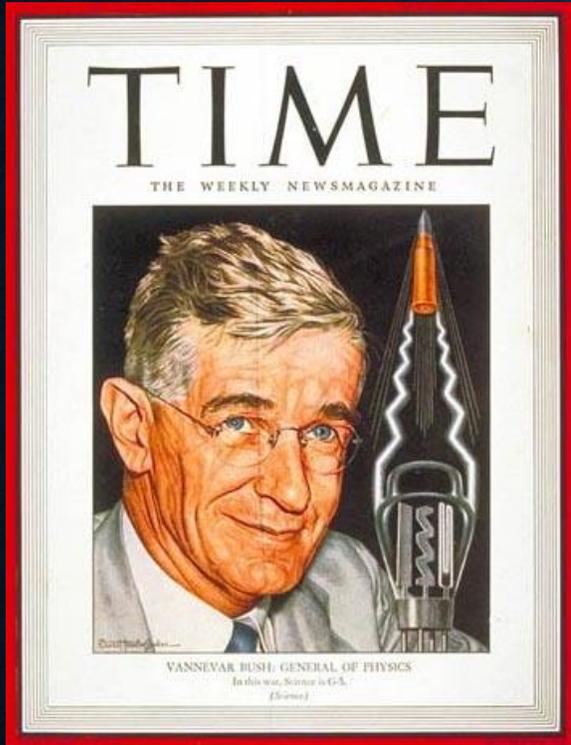
The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..."

The agency's origins...

Science The Endless Frontier

A Report to the President by **Vannevar Bush**, Director of the Office of Scientific Research and Development, July 1945





Basic scientific research is scientific capital...

How do we increase this scientific capital? First, we must have plenty of men and women trained in science, for upon them depends both the creation of new knowledge and its application to practical purposes. Second, we must strengthen the centers of basic research which are principally the colleges, universities, and research institutes. These institutions provide the environment which is most conducive to the creation of new scientific knowledge...

It is only the colleges, universities, and a few research institutes that devote most of their research efforts to expanding the frontiers of knowledge...

The most important ways in which the Government can promote industrial research are to increase the flow of new scientific knowledge through support of basic research, and to aid in the development of scientific talent.

Vannevar Bush

Cover-letter, Report to the President

July 25, 1945

NSF leadership:

- **Director** who oversees NSF staff and management responsible for program creation and administration, merit review, planning, budget and day-to-day operations;
- **National Science Board (NSB)** composed of 24 eminent individuals that meets six times a year to establish the overall policies of the foundation. 6 year terms.

And who reviews/judges grant proposals?

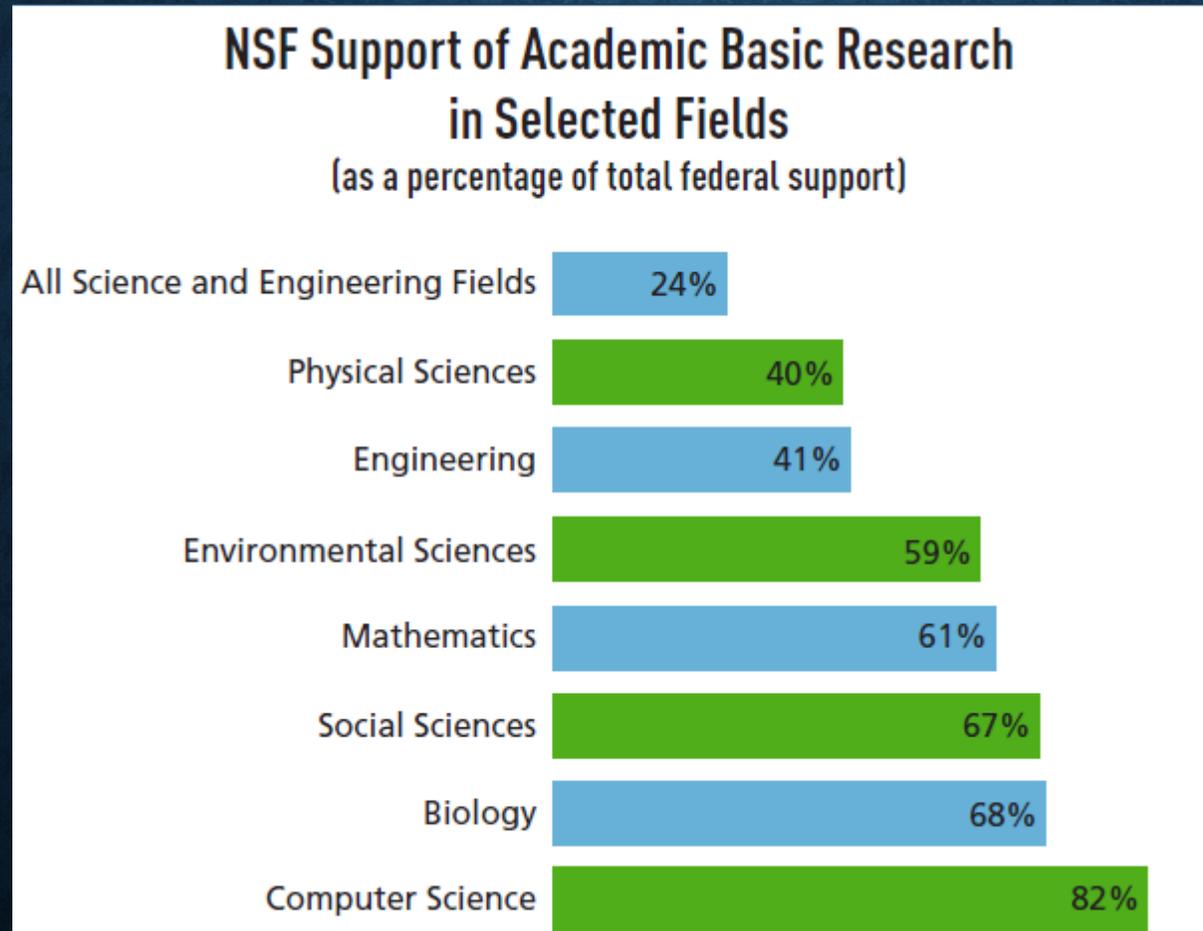
You do... you and your colleagues through the agency's merit review process. See accompanying workshop handout. The NSF's merit review process will be described in greater detail later in this program.

FY 2017 BUDGET REQUEST

NSF Budget by Appropriation (dollars in millions)					
	FY 2015 Actual	FY 2016 Estimate	FY 2017 Request	Change Over FY 2016 Estimate	
				Amount	Percent
Research and Related Activities	\$6,041.57	\$6,033.65	\$6,425.44	\$391.79	6.5%
Education and Human Resources	\$886.33	\$880.00	\$952.86	\$72.86	8.3%
Major Research Equipment and Facilities Construction	\$144.76	\$200.31	\$193.12	-\$7.19	-3.6%
Agency Operations and Award Management	\$306.56	\$330.00	\$373.02	\$43.02	13.0%
National Science Board	\$4.15	\$4.37	\$4.38	\$0.01	0.2%
Office of Inspector General	\$14.60	\$15.16	\$15.20	\$0.04	0.3%
TOTAL	\$7,397.97	\$7,463.49	\$7,964.02	\$500.53	6.7%

Looking ahead, is President Obama putting NSF dollars at risk changing the traditional means of budgeting research? Budgeting some as Mandatory spending and other as Discretionary?

NSF provides support for research and training in all fields of fundamental science and engineering, except for medical sciences.



So... How do I apply for NSF funding?

How do I know if my ideas can be funded?

How do I know how much funding to request?

Who or where do I go for help?



The Office for Research & Sponsored Programs is a good place to start...

How do I apply?

Electronically, uploading PDFs, using either

- **NSF's FastLane**

<https://www.fastlane.nsf.gov> or

- **GRANTS.GOV**

<http://www.grants.gov/com>



IMPORTANT: All applicants must be registered with NSF *through* FastLane, whether they plan to use Grants.gov or FastLane for purposes of proposal submission.. At Old Westbury, faculty register in FastLane through Tom Murphy.

Registering with NSF through FastLane:

- Provide the College's director of ORSP (Tom Murphy) with:
- Your name -- exactly how you wish it to appear.
Do you use your middle name or a middle initial? Do you hyphenate? Do you use a suffix such as Jr. or III?
- Your professional phone number and e-mail address,
normally your Old Westbury telephone and e-mail, but not always...
- Your terminal degree, the year conferred and academic discipline, *which is not necessarily the same as your current academic department.*

Preparing your proposal in *FastLane*...

The screenshot shows the FastLane website interface. At the top, there is a browser address bar with the URL <https://www.fastlane.nsf.gov/jsp/homepage/propc> and a search bar containing "RE: NSF_S_STEM - murphyt@ol...". Below the browser bar is a navigation menu with the following items: [Proposals, Awards and Status](#) (circled in red), [Proposal Review](#), [Panelist Functions](#), [Research Administration](#), and [Financial Functions](#). Below this is a secondary menu with [Graduate Research Fellowship Program](#) and [Postdoctoral Fellowships and Other Programs](#).

On the left side, there is a "Quick Links" section with the following items: [Help for Proposal Preparation](#), [Frequently Asked Questions About FastLane Proposal Preparation](#), [Grant Proposal Guide](#), [Deadlines and Target Dates](#), [Change Password](#), and [Lookup NSF ID](#). A red arrow points from the "Grant Proposal Guide" link to the "Proposal Functions" section in the main content area.

The main content area is titled "Proposals, Awards and Status" and contains the following text: "Log in for the following permission-based functions:" followed by two sections of functions:

- Proposal Functions**
 - Letters of Intent
 - Proposal Preparation
 - Proposal Status
 - Display Reference Status
 - Revise Submitted Proposal Budget
 - Proposal File Update
- Award and Reporting Functions**
 - Notifications and Requests
 - Continuation Funding Status
 - View/Print Award Documents
 - Project Reports System - Disabled in FastLane. Log in to [Research.gov](#)
 - Supplemental Funding Request
- Change PI Information**

On the right side, there is a "PI/Co-PI Log In" form (circled in red) with the following fields: "Last Name:", "NSF ID:" (with a [Privacy Act](#) link), and "Password:". Below these fields is a "Log In" button and two links: [Forgot Password?](#) and [Lookup NSF ID](#).

Below the "PI/Co-PI Log In" form is another section titled "Other Authorized Users (OAU) Log In" with a sub-section "Log In by Proposal ID" containing the following fields: "OAU Last Name:", "OAU NSF ID:" (with a [Privacy Act](#) link), "OAU Password:", and "Proposal ID:".

At the bottom right of the page, there is a zoom level indicator showing "85%".

Preparing your proposal in GRANTS.GOV...

The screenshot shows the GRANTS.GOV website interface. A yellow arrow points to the logo. The search bar contains 'Grant Opportunities' and 'Enter Keyword...'. The search results are filtered for 'AGENCY: [X] All National Science Foundation'. The table below shows 232 matching results, with one row circled in red.

Funding Opportunity Number	Opportunity Title	Agency	Posted Date	Close Date
16-550	Conferences and Workshops in the Mathematical Sciences	National Science Foundation	03/04/2016	
16-547	Innovation Corps - National Innovation Network Sites Program	National Science Foundation	02/27/2016	05/25/2016
16-548	Science Learning+ Partnership Grants	National Science Foundation	02/27/2016	06/14/2016
16-545	Materials Research Science and Engineering Center	National Science Foundation	02/26/2016	12/02/2016
16-546	Management and Operation of the National Geophysical Observatory for Geoscience	National Science Foundation	02/26/2016	12/30/2016
16-544	Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science	National Science Foundation	02/23/2016	06/24/2016
16-543	Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences	National Science Foundation	02/23/2016	09/14/2016
16-541	Antarctic Research	National Science Foundation	02/17/2016	05/16/2016
16-540	Antarctic Artists and Writers Program	National Science Foundation	02/17/2016	06/01/2016
16-540	NSF Scholarships in Science, Technology, Engineering, and Mathematics Program	National Science Foundation	02/17/2016	05/16/2016

Preparing a project budget...



SUMMARY PROPOSAL BUDGET

FOR NSF USE ONLY

ORGANIZATION				PROPOSAL NO.		DURATION (MONTHS)	
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR				AWARD NO.		Proposed	Granted
A. SENIOR PERSONNEL: PI/PI, Co-PIs, Faculty and Other Senior Associates List each separately with name and title. (A.7. Show number in brackets)				NSF-Funded Person-months		Funds Requested By Proposer	Funds Granted by NSF (If Different)
				CAL	ACAD	SUMR	
1.							\$
2.							
3.							
4.							
5.							
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET EXPLANATION PAGE)							
7. () TOTAL SENIOR PERSONNEL (1-6)							
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. () POSTDOCTORAL ASSOCIATES							
2. () OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)							
3. () GRADUATE STUDENTS							
4. () UNDERGRADUATE STUDENTS							
5. () SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)							
6. () OTHER							
TOTAL SALARIES AND WAGES (A + B)							
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)							
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)							
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
TOTAL EQUIPMENT							
E. TRAVEL							
1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)							
2. FOREIGN							
F. PARTICIPANT SUPPORT							

A routine assignment for college ORSPs, as

Isn't your time better spent on the science?

- **Salary limit for PI imposed by NSF:** 2 months
- **COLA or contractual increases:**
Consult ORSP for current actuals or latest projections.
At present, I would suggest a 1.5% annual increase.
- **Employee Benefits:** Consult ORSP for latest projections or to provide calculations. Today: *PI summer, 15% S&W; undergrad student, 5%; regular employ, 45%.*
- **Indirect Costs:** a.k.a. Facilities & Administrative (F&A) Costs. 59.7% MTDC. Rate Agreement approved by DHHS on August 27, 2013. *See handout.*

How do I know if my ideas can be funded?

How do I know how much funding to request?

STEP 1: Let's return to the NSF website and find out about previous awards in your field.

Go to: <http://www.nsf.gov/awardsearch/>

STEP 2: Let's contact an NSF program officer.

How do I know if my ideas can be funded?

www.nsf.gov/funding/

- Program announcements
- But see, also, the agency's history of awards – award abstracts...

National Science Foundation
WHERE DISCOVERIES BEGIN

QUICK LINKS

SEARCH

FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

Funding

1 2

Find Funding

Get NSF funding information by [email](#) or [RSS](#).

FUNDING OPPORTUNITY SEARCH

Keywords: [Search Tips](#)

[Advanced Funding Search](#)

OTHER WAYS TO FIND FUNDING

A-Z Index

Index of words appearing in the titles of all funding opportunities.

Special Programs

- [For Undergraduate Students](#)
- [For Graduate Students](#)
- [For Postdoctoral Fellows](#)
- [For K-12 Educators](#)
- [Small Business Programs](#)
- [For Veterans](#)
- [Broadening Participation](#)

Program Areas

- [Crosscutting and NSF-wide](#)
- [Biological Sciences](#)
- [Computer & Information Science & Engineering](#)
- [Education and Human Resources](#)
- [Engineering](#)
- [Environmental Research & Education](#)
- [Geosciences](#)
- [Integrative Activities](#)
- [International Science & Engineering](#)
- [Mathematical & Physical Sciences](#)
- [Social, Behavioral & Economic Sciences](#)

Recently Announced Funding Opportunities

All funding opportunities ordered by the date they were published on the NSF web site.

Upcoming Due Dates

All funding opportunities ordered by their next due dates.

Solicitations that Limit the Number of Proposals an Organization Can Submit

Solicitations that have limits on the number of proposals that may be submitted by one organization.

Partners: Collaboration With Other Federal Agencies

NSF programs that are conducted in partnership with other federal agencies.

Proposals and Awards

- [Proposal and Award Policies and Procedures Guide](#)
- [Introduction](#)
- [Proposal Preparation and Submission](#)
- [Grant Proposal Guide](#)
- [Grants.gov Application Guide](#)
- [Award and Administration](#)
- [Award and Administration Guide](#)

Award Conditions

- [Merit Review](#)
- [NSF Outreach](#)
- [Policy Office](#)

Related

[Recovery Act](#)

GRANTS.GOV



QUICK LINKS

SEARCH

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

[Overview of Award Search Features](#)

Search award for: S-STEM Search

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

Active Awards Expired Awards

FOLLOW US [See all NSF social media](#)

[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](#)



The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA
Tel: (703) 292-5111, FIRS: (800) 877-8339 | TDD: (800) 281-8749

[Text Only Version](#) | [View Mobile Site](#)



Search award for: S-STEM

Search

Export up to 3,000 Awards: CSV XML Excel Text

Email this Link Export All Results

Sort By: Relevance Results size: 30 per page Table List

Page 1 of 100

Displaying 1 - 30 of 3000

A maximum of 3,000 results are displayed. If you did not find the information you are looking for, please refine your search.

- 1
- 2
- 3
- 4
- 5
- 6

Bellarmino S-STEM Scholars Program

Award Number:1154454; Principal Investigator:Akhtar Mahmood; Co-Principal Investigator:; Organization:Bellarmino University;NSF Organization:DUE Start Date:09/01/2012; Award Amount:\$600,000.00; Relevance:42.87;

A Rising Tide: Lifting Student Success in Science, Engineering, and Math in Southwestern Washington

Award Number:0966387; Principal Investigator:Stephen Norton; Co-Principal Investigator:Patrick Pringle, Lisa Carlson, Karen Knutsen, Michael Threapleton; Organization:Centralia College;NSF Organization:DUE Start Date:07/01/2010; Award Amount:\$471,578.00; Relevance:42.47;

Quantitative and Analytical Sciences for Academic Reinforcement and Success (QuASARS)

Award Number:1154394; Principal Investigator:DiAnna Hynds; Co-Principal Investigator:Mary Anderson, Brian Beck, Junalyn Navarra-Madsen; Organization:Texas Woman's University;NSF Organization:DUE Start Date:09/01/2012; Award Amount:\$599,863.00; Relevance:42.45;

S-STEM: UTM S-STEM Scholars

Award Number:1458504; Principal Investigator:Robbie Montgomery; Co-Principal Investigator:Ray Witmer, Katherine Stumpo, Bob Bradley, Michael Gibson; Organization:University of Tennessee Martin;NSF Organization:DUE Start Date:08/01/2015; Award Amount:\$586,000.00; Relevance:42.45;

Overcoming Barriers to STEM Success for Deaf Undergraduates

Award Number:1259237; Principal Investigator:Kathleen Arnos; Co-Principal Investigator:Paul Sabila, Regina Nuzzo; Organization:Gallaudet University;NSF Organization:DUE Start Date:05/15/2013; Award Amount:\$519,689.00; Relevance:42.06;

Increasing Access and Diversity in STEM Programs

ABSTRACT

This project will award scholarships to 26 students, in three cohorts, in the following STEM disciplines: Biology, Biochemistry and Molecular Biology, Chemistry, Computer Science, Mathematics, and Physics. In its selection, the college will take heightened interest in academically-promising underrepresented minority and first-generation students with financial need. By carefully targeting recruitment efforts and providing mentoring during the first two years at college, the project will create a constructive environment to nurture students in order to increase retention and persistence in their chosen STEM majors. The project will increase the number of talented STEM majors with the potential to contribute to the advancement of knowledge in a broad range of scientific endeavors, and will train a diverse group of students for eventual employment in STEM fields.

In order to successfully retain students, the project will include a recruitment plan that integrates individualized outreach to students identified in collaboration with Community Based Organizations, enrollment in an exclusive First-Year Seminar taught by STEM faculty, STEM Faculty Liaisons in each of the science departments serving as academic advisors, mentors, and facilitators, and a variety of on- and off-campus learning activities. The project's objectives during the Scholars' first year are: (1) to prepare and support the S-STEM Scholars for a successful undergraduate career, (2) to provide continuing practice for the skills necessary for STEM, and (3) to build and nurture a sense of community among the S-STEM Scholar cohorts. During their sophomore year, each S-STEM Scholar will continue to be closely mentored by their STEM Faculty

Liaison advisor, who will support and encourage their participation in various STEM opportunities including faculty-student research, peer-mentoring, colloquia, preferential residence in Gettysburg College's Science House as well as work-related internship opportunities with institutional industry partners. Assessment of the efficacy of these different activities will help contribute to expanding the knowledge base regarding the circumstances under which scholarship projects of this type are successful.

Please report errors in award information by writing to: awardsearch@nsf.gov.

7. Obtaining copies of proposals

The Award Search provides only the abstracts for awards. The proposals themselves are the confidential intellectual property of the submitting organizations. The easiest way to get a copy of a proposal is to contact the primary investigator for the award and ask that person if he or she will share it with you. Example proposals are available in NSF's [FastLane demo system](#).

RE: NSF S_STEM

Inbox x



[Redacted] edu>

to me ▾



Jan 6 ☆

Good morning Tom:

As promised, here is the requested copy of our grant document. If I can offer one small piece of advice, I found that the most valuable and insightful comments that I received was those that happened during conference call conversations with the NSF program director and assistant director of the S-STEM program. From very early in our grant writing process, we reached out to them for their input and ask for clarification, their feedback and general guidance was very helpful for us in order to discern what are the priorities of the funding initiative as well as some of the common mistakes to avoid.

Let me know if I can be of further help.

Cheers,

[Redacted]

Part 1 - Grant Proposal Guide

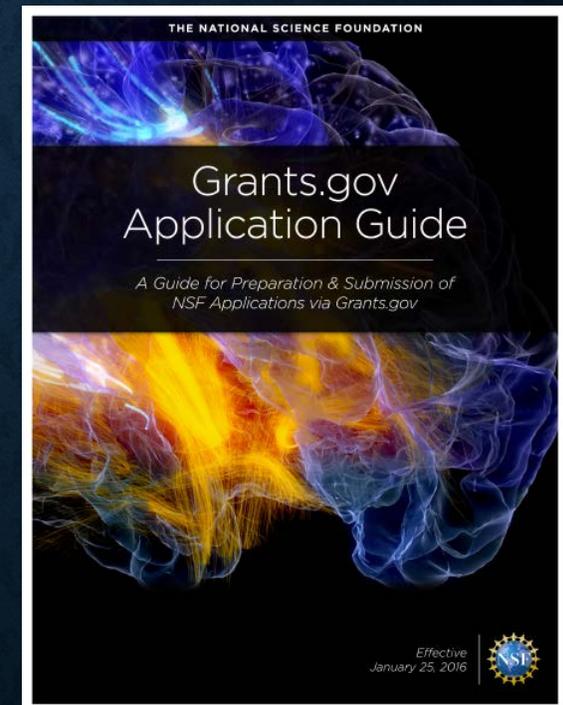
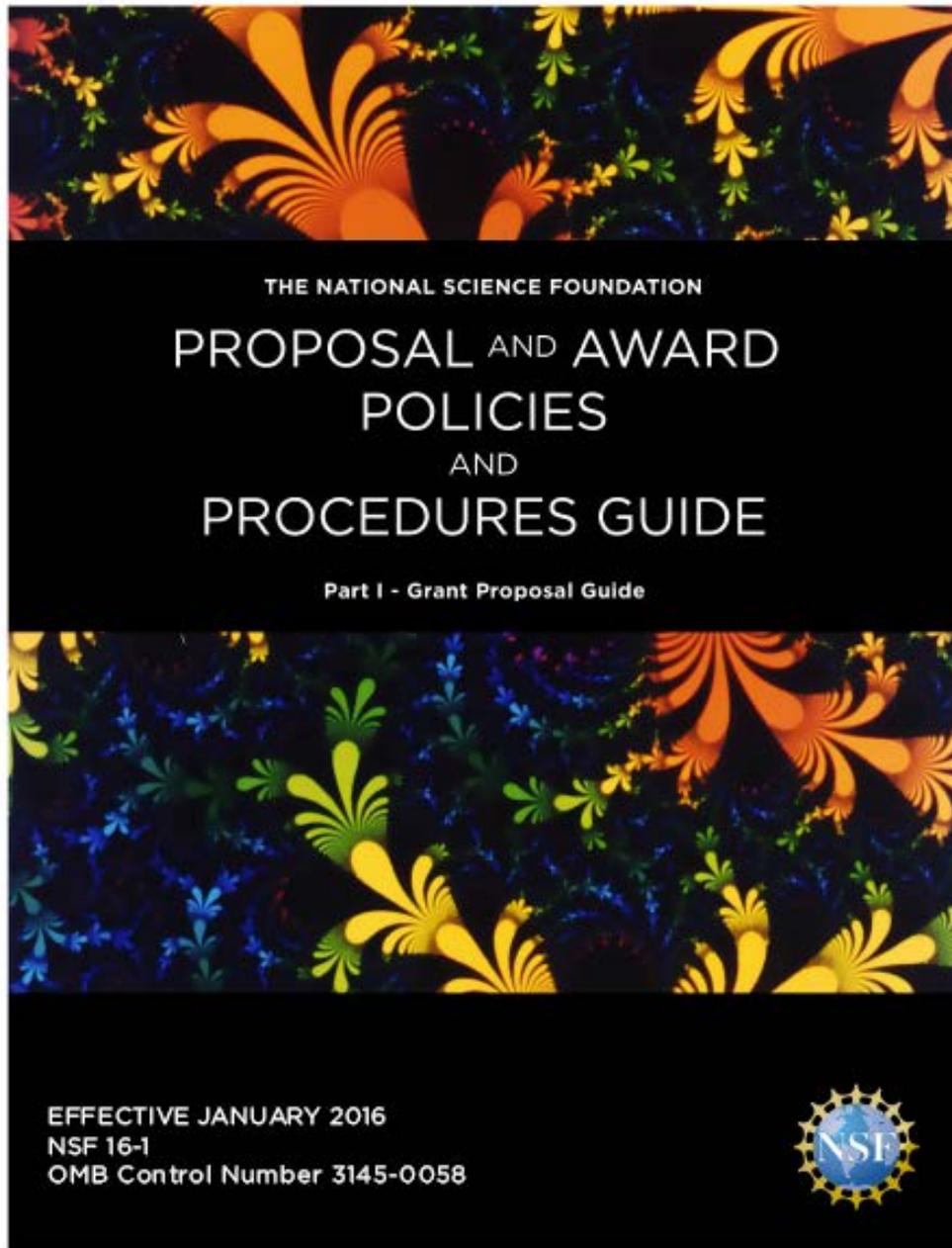
Part 2 - Post Award regulations

Proposal content and formatting

*Traditional Means:
FastLane*

Grants.gov

*Beware! similar
documents, but different!*



Target dates: dates after which proposals will still be accepted, although they may miss a particular panel or committee meeting.

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.

Applications are **due by 5:00 pm sharp** (local time) on any given deadline date.

Flexibility in meeting announced deadline dates because of a natural or anthropogenic disaster that impacts a proposer's ability to submit a proposal to NSF may be granted with the approval of the cognizant NSF Program Officer.

Letters of intent or preliminary proposals also follow the 5 p.m. submitter's local time standard

Grant applicants should allow up to six months for programmatic review and processing of their proposal. In addition, proposers should be aware that the NSF Division of Grants and Agreements generally makes awards within 30 days after the program division/office makes its recommendation.

Bottom line: Expect an approved Project Start date a full 7 – 9 months after proposal submission

Emergency need for funds? Contact your Office of Research and Sponsored Programs concerning possible approval of Pre-Award Costs – the ability to “advance” funds up to 90-days.

Official Project Start Date: May 1

Start date with approval of Pre-Award Costs: February 1

Preliminary Proposals and Letters of Intent

Some NSF program solicitations require or request submission of a preliminary proposal or a Letter of Intent in advance of submission of a full proposal.

- To reduce the potential grant applicant's unnecessary effort in proposal preparation when the chance of success is very small. This is particularly true in the case of competitions that will result in a small number of awards;**
- To assist NSF program staff in managing the review process and in the selection of reviewers.**
- To improve the overall quality of the full submission – assuring that applicants are, indeed, “on track” with the program solicitation's intent.
(E.g., Planning Grants vs Implementation Grants)**

Metric System

Proposers are encouraged to use the Metric System of weights and measures in proposals submitted to the Foundation. Grantees also are encouraged to use metric units in reports, publications and correspondence relating to proposals and awards. (Ref: The Metric Conversion Act of 1975, as amended, and Executive Order 12770 of 1991).

Proprietary or Privileged Information

Patentable ideas, trade secrets, privileged or confidential information, disclosure of which may harm the proposer, should be included in proposals only when such information is necessary to convey an understanding of the proposed project. Such information must be clearly marked in the proposal and be appropriately labeled with a legend such as,

"The following is proprietary information that the applicant, SUNY College at Old Westbury, requests not be released to persons outside the Government, except for purposes of review and evaluation."

Prior to submission, it is strongly recommended that proposers conduct an administrative review to ensure that proposals comply with the proposal preparation guidelines.

Be assured, the College's Office of Research and Sponsored Programs (ORSP) will conduct a similar review, but only as time truly permits. If an application is not submitted to the ORSP in a timely manner, our review of the proposal may be limited and our collective ability to take corrective actions similarly limited.

Use our NSF Grant Application Checklist, which will soon be made available from the ORSP website, to assist in this review.

The checklist is not intended to be an all-inclusive repetition of the required proposal contents and associated proposal preparation guidelines. It is, however, meant to highlight certain critical items so they will not be overlooked when the proposal is prepared.

- **Use one of the following typefaces only:**

Arial, Courier New, or Palatino Linotype at a font size of 10 points or larger;
Times New Roman at a font size of 11 points or larger; or
Computer Modern family of fonts at a font size of 11 points or larger.

A font size of less than 10 points may be used for mathematical formulas or equations, figures, table or diagram captions and when using a Symbol font to insert Greek letters or special characters. Applicants are cautioned, however, that the text must still be readable.

- **No more than 6 lines of text within a vertical space of 1 inch.**
- **Margins, in all directions, must be at least 1 full inch.**

These requirements apply to all uploaded sections of a proposal, including supplementary documentation.

List of Suggested Reviewers or Reviewers Not to Include

An optional attachment, but generally considered very helpful to program officers.

Proposers may include a list of suggested reviewers who they believe are especially well qualified to review the proposal. Proposers also may designate persons they would prefer not review the proposal, but must indicate why. Inclusion of such names is not required by the applicant; likewise, the use of either list is not guaranteed.

Certification Regarding Responsible Conduct of Research (RCR)

The College is required to provide appropriate training and oversight in the responsible and ethical conduct of research to undergraduates, graduate students, and postdoctoral researchers who will be supported by NSF to conduct research.

When addressing RCR training at the College, one may wish to address Department-specific or Lab-specific training requirements, however, it is also important to cite the College's use of CITI programs, accessible through the ORSP website. CITI training programs are held in high regard and originated using funding provided by the NSF.



New...

Certification Regarding Dual Use Research of Concern:

The AOR* is required to complete a certification that the organization will be or is in compliance with all aspects of the *United States Government Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern.*

* Director, ORSP

The College's Local Approval Form



Office for Research and Sponsored Programs – Local Approvals Checklist

All applications for grant support are subject to prior institutional review with approval signatures to be recorded using this checklist/form. Complete grant applications should be submitted to the Office for Research and Sponsored Programs (ORSP) with a completed copy of this form at least ten (10) days in advance of the potential sponsor's deadline. Campus officials recognize such a lead time may not always be possible; for this reason we highlight that if a complete proposal is not received at least 4 full business days in advance of a sponsor's deadline, the application is at very high risk of not being approved for submission. For assistance in completing this form contact the ORSP at extension 3215.

← Re: Lead time.

For further information visit: www.oldwestbury.edu/research

I. PROJECT INFORMATION

Project Type (please check one)

- Preliminary Proposal
- New Proposal
- Progress Rep./Continuation
- Competing Renewal
- Revised Submission

Project

Period: _____ through _____

Sponsor: _____

RFA or Program Announcement #: _____

Due date: _____

Project Title: _____

II. PROJECT DIRECTOR / PRINCIPAL INVESTIGATOR (PRIMARY CONTACT PERSON)

▪ **Name:** _____ **Dept:** _____

Ac Yr effort and salary recovery: _____

Other compensation (Summer / Extra Service): _____