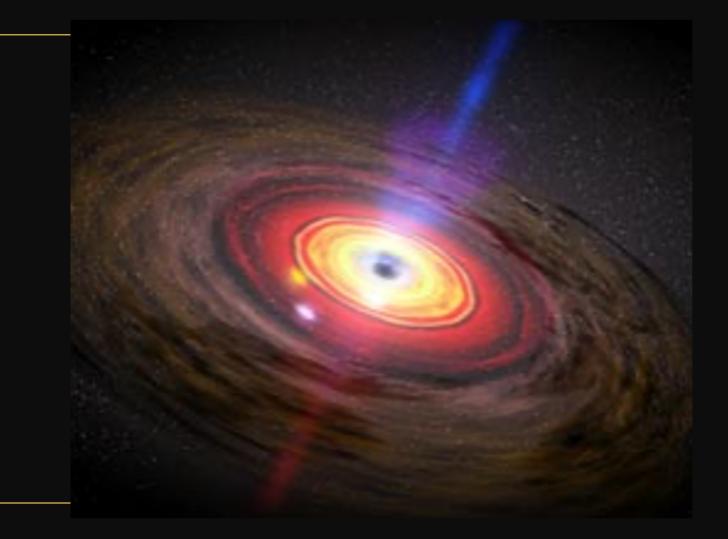


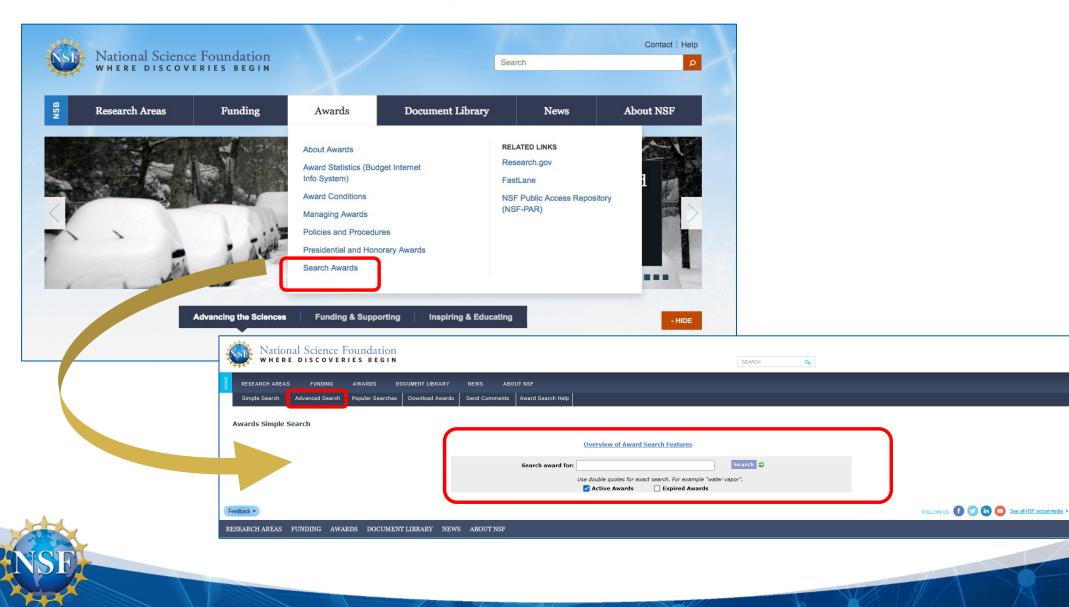
Getting Funding from the NSF: Tips for Developing Proposals

Diane Jofuku Okamuro, Program Director

How do Pls relate to the NSF and funding agencies?



Where Does My Research Fit?



BIO and Biomedical Research: What Isn't Funded

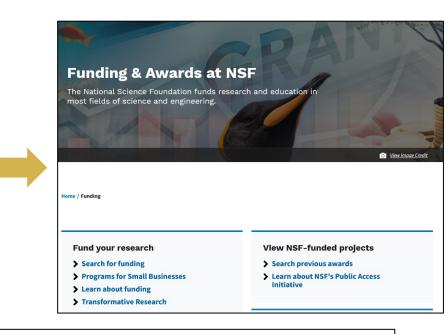
- Biological research on mechanisms of disease in humans, including on the etiology, diagnosis, or treatment of disease or disorder, is normally not supported.
- Biological research to develop animal models of such conditions, or the development or testing of procedures for their treatment, also are not normally eligible for support.
- However, research with etiology, diagnosis or treatment-related goals that advances knowledge in engineering, mathematical, physical, computer, or information sciences is eligible for support. Bioengineering and assistive information technology research to aid persons with disabilities also is eligible

Types of Funding Opportunities for Basic Research at NSF/IOS

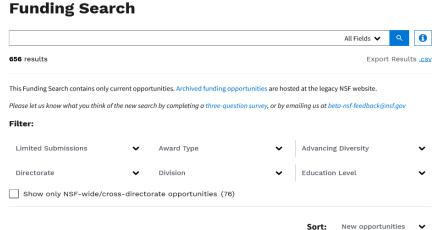
- Core research programs
- Special emphasis programs [e.g., CAREER, Organismal Response to Climate Change (ORCC), Enabling Discovery through Genomics (EDGE)]
- Training programs (e.g., Postdoctoral Research Fellowships in Biology)

How to Find Funding Opportunities

	Foundation ERIES BEGIN		Searc	h	Contact
Research Areas	Funding A	Awards	Document Library	News	About NSF
Office of the Director (OD)	About Funding	About Funding RELATED LINKS Archived Funding Search Proposal and Award Policies and Proceed Guide (PAPPG) Due Dates Research ov	ED LINKS		🖬 Email 🔒 Print 🏞 S
OECR Home			(PAPPG)	hts	hts
Term and Condition Required Notification of Harassment Form	Find Funding	FastL			and with the NSF award
Stop Harassment	Merit Review Policies and Procedures	FUNDI	NG OPPORTUNITIES FOR	conducted pro	ful discrimination, grams. Our services are
Awardee Civil Rights	Preparing Proposals		ate Students	is, piease use	the buttons on the left
NSF Awardee Program Complaint Form	Recent Opportunities		Educators octoral Fellows		
Equal Employment Opportunity	Transformative Research	Under	rgraduate Students		who participate in any o 1964, (prohibits
Reasonable Accommodations		Small	Business	hination on the	3 (prohibits discrimination e basis of sex in Federa
			of unlawful discrimination, harassment a ts civil rights compliance reviews of NSF	and retaliation in NSF	
Directives, Plans, and Reports	programs and activities. In	addition, OECF	R provides technical assistance and informed program participants can assert their	mation on how award	lee organizations can
OECR Staff	harassment or retaliation u				
	wish to inform NSF of unlar Civil Rights Compliance Pr	wful discrimination of the second sec	he NSF Awardee Program Complaint For on or harassment in an NSF-funded prog ontact us at 703-292-8020 or at program _rights/index.jsp for more information on	gram or have question complaints@nsf.gov.	ns regarding the Awarde Please refer to
	NSF HARASSMENT NO				



https://new.nsf.gov/funding/opportunities





Types of Proposals and Solicitations

- Solicited vs. unsolicited proposals
 - **Solicitation** describes a specific funding program, including some that are general in topic (i.e., BIO core programs)
 - Other proposals are submitted in response to the general NSF Proposal & Award Policies & Procedures Guide (PAPPG)
- Dear Colleague Letters (DCLs)
 - Usually announces a specific program emphasis for an existing funding opportunity
- Deadlines vs. Target Dates
 - Firm vs. flexible

Remember: BIO Core Programs don't have deadlines!

No deadlines for some programs and some proposal types (small grants, workshops, supplements)

Essential Document - Proposal & Award Policies & Procedures Guide (PAPPG) The "Basics"

NATIONAL SCIENCE FOUNDATION

PROPOSAL AND AWARD POLICIES AND PROCEDURES GUIDE



NSF 23-1



Effective January 30, 2023 NSF 23-1 OMB Control Number 3145-0058

- Provides guidance for proposal preparation and submission to NSF
 - Who can submit proposals?
 - What is allowed in the budget?
 - Format + required documents
- Describes the merit review process by which proposals will be reviewed
- Share this with your Grants Office

Essential Documents - Solicitations

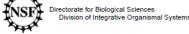
Division of Integrative Organismal Systems Core Programs

PROGRAM SOLICITATION

NSF 23-547

REPLACES DOCUMENT(S): NSF 21-506

National Science Foundation



Full Proposal Deadline(s):7

Proposals Accepted Anytime

IMPORTANT INFORMATION AND REVISION NOTES

REVISION NOTES

IOS continues to accept unlimited no deadline full proposal submission: proposals may be submitted any day, any time with no limit on the number of proposals that may be submitted by an individual investigator.

This solicitation contains two submission tracks: The Core Programs Track and the IntBIO Track.

IntBIO Track: An Integrative Research in Biology (IntBIO) Track has been added.

Proposers should note that proposals to the IntBIO Track require additional information that reviewers will be asked to evaluate. These are described in the program description and in the additional solicitation-specific review criteria.

Safe and Inclusive Working Environments: The Directorate for Biological Sciences requires that proposers who include off-campus or off-site research as part of their project submit, as supplementary documentation, a Plan for Safe and Inclusive Working Environments. Proposals submitted after April 16, 2023 that involve off-campus or off-site research, defined as data/information/samples collected off-campus or off-site, must include a Safe and Inclusive Work Environments Plan. For this solicitation, this document replaces the required plan associated with the certification in Chapter II.E.9 of the Proposal and Award Policies and Procedures Guide (PAPPG, NSF 23-1). Instructions for inclusion of the Plan for Safe and Inclusive Working Environments can be found in the additional proposal preparation instructions in this solicitation.

Any proposal submitted in response to this solicitation should be submitted in accordance with the NSF Proposal & Award Policies & Procedures Guide (PAPPG).

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Division of Integrative Organismal Systems Core Programs (IOS

Synopsis of Program:

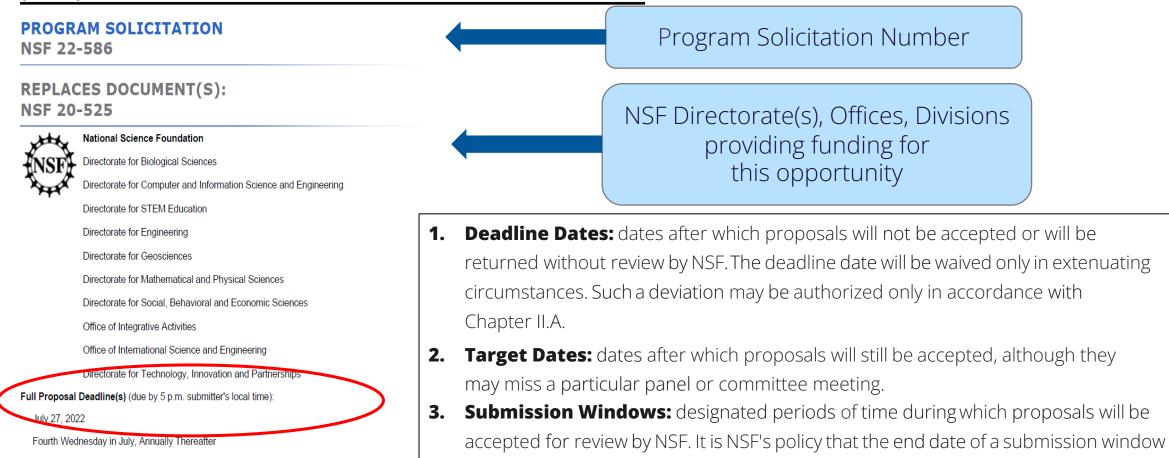
The Division of Integrative Organismal Systems (IOS) Core Programs Track supports research to understand why organisms are structured the way they are and function as they do. Proposals are welcomed in all of the core scientific program areas supported by the Division of

- Deadline / Target Date
- Synopsis
- Program Directors (who to ask questions)
- Eligibility (Do you and your institution qualify for this program?)
- Budget limitations
- Do you need a Pre-Proposal or Letter of Intent?
- How much money is available, how many awards are expected?

Sample Cover Page of a Solicitation

Faculty Early Career Development Program (CAREER)

Includes the description of NSF Presidential Early Career Awards for Scientists and Engineers (PECASE)



Remember: BIO Core Programs don't have deadlines!

converts to, and is subject to, the same policies as a deadline date.

Sample Cover Page of a Solicitation: Award Info

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

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 three-competition 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.

Eligibility information for institutions/Pls submitting proposals

Important Info: Solicitation-specific Review Criteria!

Additional Solicitation Specific Review Criteria

For IntBIO Track proposals, reviewers will be asked to evaluate the extent to which:

- The proposal describes a fundamental overarching question or significant technical challenge that is addressed through bold, integrative, hypothesis- or
 question-driven research and that aims to produce outcomes that are synergistic and have potential to reveal new principles underlying function or
 interaction of biological systems.
- The graphical illustration effectively convey how integration will be accomplished through interconnection among sub-disciplines, elements, or systems
 and how integrated strategies will lead to a synergistic outcome.
- The proposal provides a clear description of the investigative team and evidence that they are well-positioned to achieve the goals of the proposed work.
- The proposal describes an inclusive training and education plan, as part of broader impacts, that is likely to produce a new generation of diverse scientists who are trained in integrative approaches to biological research.

Reviewers will be instructed to evaluate the Plan for Safe and Inclusive Work Environments within the Broader Impacts review criterion, specifically:

- Is there a compelling plan (including the procedures, trainings, and communication processes) to establish, nurture, and maintain inclusive off-campus
 or off-site working environment(s)?
- Does the proposed plan identify and adequately address the unique challenges for the team and the specific off-campus or off-site setting(s)?
- Are the organizational mechanisms to be used for reporting, responding to, and resolving issues of harassment, should they occur, clearly outlined?

Safe and Inclusive Work Environments

The First Steps in Proposal Preparation

Ask yourself the following questions -

What do I want to do? Think feasible research project that can be accomplished in 3-5 years

What do I need to do it? Personnel, materials & supplies...



Parts of a Proposal: PAPPG + Solicitation

- Cover sheet and certifications
- Project summary: includes Broader Impacts
- Table of contents
- Project description (usually 15 pages)
- References cited
- Biographical sketches (specified format)
- Current and pending support

Budget/budget justification

- acilities, equipment and other resources
- Special documentation, single copy documents (no reprints, preprints, letters of general support or endorsement)
- Solicitation-specific documents

Technical Questions? Contact Research.gov Help Desk at 1-800-381-1532

Broader Impacts: Benefitting Society

Teaching, training, and learning (undergrads + grad students)

Broaden participation of underrepresente d groups Build or enhance partnerships (internationally, or with other agencies)

Broad dissemination to enhance scientific + technological understanding Enhance infrastructure (labs, equipment, + work in developing countries)

Local impacts (policies @ state + local level)

Advice on Broader Impacts

- It's not a formula
 - Do something that interests you, has measurable outcomes, and matches the time you are willing to devote
 - Go above and beyond what you are already paid to do

Ask for money if you need it

- Use existing infrastructure, as appropriate
 - But...give, as well as take
 - Realize that institutions certify to support your efforts

Ask for help with assessment

• Consult https://www.researchinsociety.org/



Advancing Research Impact in Society

Budgeting – Know Your Needs and Your Numbers

- Know what things will cost (at least roughly) work with your Grants Office
- Ask for what you need!
 - People (Senior Personnel and Other Personnel)
 - Equipment (Tools and Technology)
 - Outreach Efforts (Broader Impacts)
 - Subawards
 - Other
- Stay within budget allowances (look at the requirements) are there budget limits?

		FOR NSF USE ONLY			
SUMMARY PROPOSAL BUDGET					
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cate each beparately with name and use. (A.T. Show humber in brackets)		ACAD		Proposer	(If Diff
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4. 5.					-
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B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)					
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2. ( ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)		+ +			+
3. ( ) GRADUATE STUDENTS					1
4. ( ) UNDERGRADUATE STUDENTS					
5. ( ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					+
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TOTAL SALARIES AND WAGES (A + B)					
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### **Remember: A Proposal is Different Than a Paper**

#### A Paper is:

- a scholarly pursuit: individual passion, past-oriented, work that has been done
- theme-centered: theory and thesis
- expository rhetoric: explaining to the reader, impersonal tone, objective, dispassionate
- individualistic: primarily a solo activity
- few length constraints: verbosity rewarded
- specialized terminology: "insider jargon"

#### A Proposal is:

- aimed at sponsor goals: service attitude, future-oriented, work that should be done
- project-centered: objectives and activities
- persuasive rhetoric: 'selling' the reader, personal tone, conveys excitement
- team-focused: feedback needed
- strict length constraints: brevity rewarded
- accessible language: easily understood

Reference: Porter (2007) The Journal of Research Administration; Volume XXXVIII, No.2: p. 37-43

## **Take-Home Messages**

- Contact relevant Program Officer to discuss your ideas
  - □ Send a 1-page summary of your **research and broader impacts** plans
- BIO core programs have **no deadlines** –submit your proposal when ready
- Multiple funding mechanisms support:
  - □ interdisciplinary research
  - □ researchers across different career stages
  - □ infrastructure
  - education, outreach and broadening participation in STEM
  - **<u>Read</u>** the solicitation carefully

## Some final words ...

## Think science first, then budget

## **Think strategically!**

### Offer to Review Proposals or Serve on Panels

#### and remember...

## **NSF Program Directors...**

Are here to help you! All you need to do is ask!!





## Safe and Inclusive Work Environments Plan

#### **Required 2-page supplement including*:**

- 1. a brief description of the field setting and unique challenges for the team;
- 2. the steps the proposing organization will take to nurture an inclusive offcampus or off-site working environment, including processes to establish shared team definitions of roles, responsibilities, and culture;
- 3. communication processes within the off-site team and to the organization(s) that minimize singular points within the communication pathway; and
- 4. the organizational mechanisms that will be used for reporting, responding to, and resolving issues of harassment if they arise.

*plan is in lieu of AOR certification when submitting to programs included in the pilot

## Safe and Inclusive Work Environments Plan

Required for (as of now):

- BIO core programs*
  - DEB
  - IOS
  - MCB
- Biodiversity on a Changing Planet
- Pathways into the Geosciences
- Cultural Transformation in the Geosciences Community

* As these are no-deadline solicitations, there is a 90-day grace period from when they posted during which the NSF-wide requirement for AOR certification is required