

## Division of Integrative Organismal Systems (IOS) Virtual Office Hour

Welcome! We will begin the Virtual Office Hour soon. Please submit questions in the Zoom Q&A box.

## Division of Integrative Organismal Systems (IOS) Welcome!

#### **Program Directors in attendance today:**

- Jodie Jawor (MC Behavioral Systems Cluster)
- Anna Allen (co-MC Developmental Systems Cluster)
- Kathy Dickson (Mid-Career Advancement; MCA)
- Suzy Renn (Facilitating Research at PUIs; RUI)
- Colette St. Mary (BRC-BIO)

#### Administrative Support & Technical Assistance:

• Elizabeth Wenker

## IOS Virtual Office Hour Today's Topics

- Updates and reminders
- Recent Solicitations and Dear Colleague Letters (DCLs)
- Funding opportunities of interest to PIs at PUIs
- Q&A with program officers

## **NSF's Broadening Participation Portfolio**

#### **Relevant opportunities**

Two new programs! Established Program to Stimulate Competitive Research (EPSCoR)

- EPSCoR Collaborations for Optimizing Research Ecosystems (E-CORE) Research Infrastructure Improvement (RII) Program (<u>NSF 23-587</u>)
- EPSCoR Research Incubators for STEM Excellence (E-RISE) RII Program (NSF 23-588)

## Centralized information available on NSF's broadening participation portfolio websites:

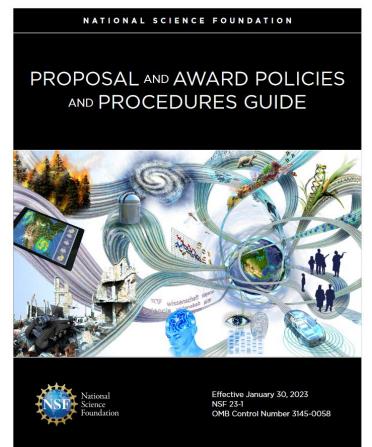
- <u>https://new.nsf.gov/funding/initiatives/broadening-participation</u>
- <u>https://www.nsf.gov/od/broadeningparticipation/bp\_portfolio\_dynamic.jsp</u>

## **Administrative Updates & Reminders**

- Collaborators and Other Affiliations (COA) is needed for *all* PI's and senior personnel.
- Use the PAPPG approved text for Letters of Collaboration.
- The proposal *you are submitting* is to be listed as 'Pending' in the Current and Pending documentation.
- Safe & Inclusive Working Environments for Off-campus or off-site research

If off-campus/off-site research is proposed, the box indicating that **must** be checked on cover page

A 2-page SAI Plan is **required** to be uploaded as a Supplemental Document if you are applying to a BIO CORE solicitation or another program participating in the BIO/GEO SAI Plan Pilot. See the <u>BIO</u> <u>Homepage</u> for more information and participating programs.



## **Recent Solicitations and DCLs**

Core IOS solicitation (23-547), PBI (20-576), and PGRP (21-507) – No deadlines and no submission limits

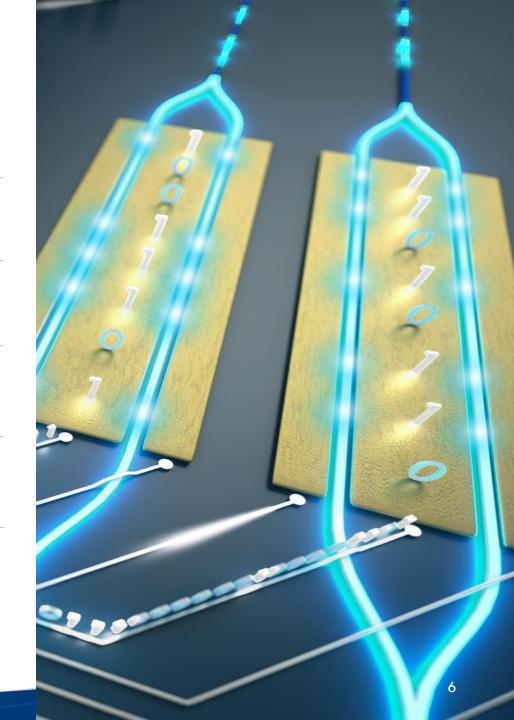
DCL: Bioinspired Design Collaborations to Accelerate the Discovery-Translation Process (BioDesign) (23-055)

Organismal Response to Climate Change (ORCC) (23-622) – Dec. 13, 2023 **\*\*Recently updated solicitation\*\*** 

Mid-scale Research Infrastructure-2 (Mid-scale RI-2) (23-570) – Dec. 18, 2023

Mid-Career Advancement (MCA) (22-603) – Feb. 1-March 1, 2024

IOS Synthesis Center for Understanding Organismal Resilience (23-564) – preliminary proposal Jan. 12, 2024



## IOS Virtual Office Hour Reminders

- Submit questions in the Zoom Q&A box
- Project-specific questions are best addressed individually by contacting a Program Director
- Next IOS Virtual Office Hour: 16 November 2023
  - IOS Synthesis Center for Understanding Organismal Resilience (NSF 23-564)

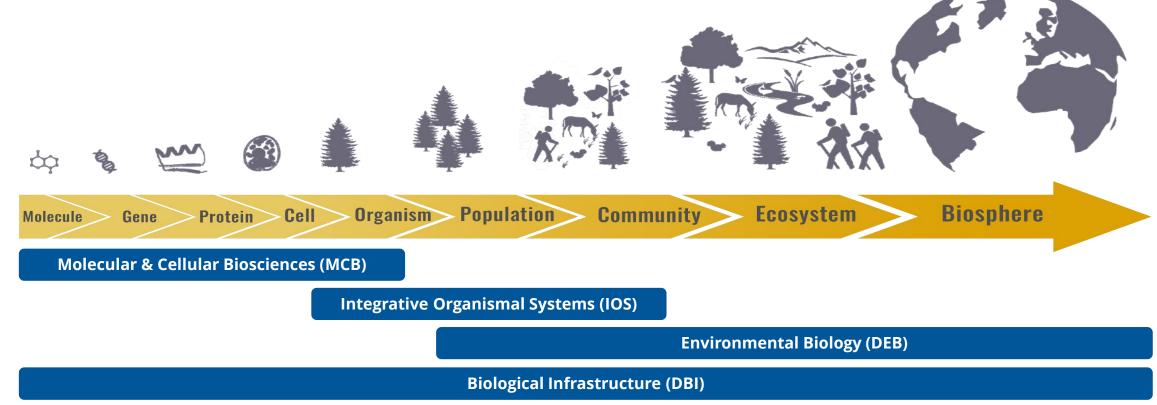


## **BIO Structure**

#### Directorate for Biological Sciences (BIO)

<ul> <li>Division of Environmental Biology (DEB)</li> <li>Ecosystem Sciences</li> <li>Evolutionary Processes</li> <li>Population and Community Ecology</li> <li>Systematics and Biodiversity Science</li> <li>**Small Grants track**</li> </ul>	<ul> <li>Division of Integrative Organismal Systems (IOS)</li> <li>Behavioral Systems</li> <li>Developmental Systems</li> <li>Neural Systems</li> <li>Physiological and Structural Systems</li> <li>Plant Genome Research Program</li> </ul>	
<ul> <li>Division of Molecular and Cellular Biosciences (MCB)</li> <li>Cellular Dynamics and Function</li> <li>Genetic Mechanisms</li> <li>Molecular Biophysics</li> <li>Systems and Synthetic Biology</li> </ul>	<ul> <li>Division of Biological Infrastructure (DBI)</li> <li>Research Resources</li> <li>Human Resources</li> <li>Centers, Facilities, and Additional Research Infrastructure</li> </ul>	

## How the BIO Divisions Support Research Across Scales





### **RUI Research in Undergraduate Institutions**

- Who: Faculty at Primarily Undergraduate Institutions
- What: An opportunity to support PUI faculty engagement in their professional field, build capacity for research at the institution, and support integration of research and undergraduate education.
- Where: At any U.S. PUI (awarded ≤20 PhDs in last 2 years)
- When: Any time (in BIO) (NSF 14-579)



## **RUI Solicitation Specific Criteria, etc.**

• **RUI Impact:** A 5-page RUI Impact Statement provides information on the potential impact of the proposed research activity on the PIs institution, department, and student participants.

Articulate & justify the proposal specific activities:

- Postdoc, technician, or postbac to smooth transitions, add continuity, or provide oversight at appropriate level.
- Integrated with teaching, summer activity, or release from teaching.
- Training undergraduates or new skills for PI.
- On campus activities, off-site collaboration, or lab visits as needed for equipment or infrastructure.
- Pedagogy development, service demands, or research community engagement.

#### Remember, many reviewers have not been at a PUI, and PUIs come in different forms.

## **ROA Research Opportunity Supplement**

- Who: NSF funded investigators.
  - Will host faculty from Primarily Undergraduate Institutions. Funded PUI faculty can apply for this. Funded faculty at non-PUIs can apply for this and host a PUI colleague.
- What: To increase or maintain a visitor's research capability and effectiveness or research teaching capabilities at the home institution while enhancing the impacts and outcomes of the NSF-funded research of the host principal investigator.
- Where: Any NSF-funded research lab.
- When: ~3 months prior to activities; usually for a summer experience
- Amount: \$20,000 \$80,000
- See also: Research Experience for Teachers Supplement (RET)
   Research Assistantships for High School Students (RAHSS)

#### Building Research Capacity of New Faculty in Biology (BRC-BIO NSF 22-500)

**Enhance research capacity by supporting new faculty** of biology at minorityserving institutions (MSIs), predominantly undergraduate institutions (PUIs), and other universities and colleges that are not among the nation's most researchintensive institutions (i.e., Not R1). **Expand opportunities for students** to engage in authentic research experiences.

- Supports new faculty initiating and building independent research programs
- Supports projects with biology-focused research collaborations
- Supports establishment of sustainable research programs that enrich undergraduate research experiences
- Provides up to \$450,000 in research costs & up to \$50,000 in justified equipment costs over 3 years

#### Building Research Capacity of New Faculty in Biology (BRC-BIO)

#### **Proposals**

- 6 page Project Description w/Intellectual Merit and Broader Impacts
- 2 page Impact Statement (reviewed)
  - Describes the impact of the project on PI's research and career
  - Impact on student research experiences
- 1 page Institutional Letter of Support (not reviewed)
  - Statement that the PI is eligible for this program
  - Statement of support for the proposed plan of research and teaching

Submission window June 1-30, 2024; annually thereafter

#### Building Research Capacity of New Faculty in Biology (BRC-BIO)

#### Eligibility

- Eligible Institution
- Pls must be Assistant Professor rank within first 3 years of appointment at submission date
- The PI's appointment must have **both** research and educational responsibilities



## **Proposal Review for BRC-BIO**

- Dedicated panels at Division level with reviewers from similar institution types well represented
- Includes solicitation-specific criteria,
  - The potential of the project to increase the capacity for research of the PI
  - The potential to increase the diversity and number of students engaged in authentic research experiences
- Proposals should be understandable by someone who is not a specialist in the proposed questions, techniques, and approaches

Contact us with questions at: <u>BRC-BIO@nsf.gov</u>

#### **CAREER Faculty Early-Career Development Program**

- Who: Tenure track faculty members at assistant professor level, or equivalent
- What: Designed to help junior faculty members develop activities that can
  effectively integrate research and education within the context of
  his/her organization.
  - Emphasizes importance of early development of academic careers, provides stable support for such over 5 years, encourages the integration of research and education
- Where: At any U.S. Institution of Higher Education or non-profit organization
- When: July 24, 2024 (NSF 22-586).

Contact Joanna Shisler (jshisler@nsf.gov) with questions

#### Ingredients for a CAREER Proposal:

- Research, Education and Broader Impacts;
- Research and educational activities are integrated/synergistic;
- **Other broader impacts**, besides the education activities, that will accrue from the project; and
- **Departmental Letter** demonstrating commitment to the career development of the investigator



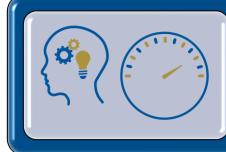
#### Mid-Career Advancement (MCA) Program – NSF 22-603

#### Directorates Participating: BIO (all), GEO (all), SBE, EDU, TIP... not MPS, CISE, or ENG

- Who: Scientists and engineers at the Associate Professor rank (or equivalent) with at least 3 years at that rank
  - Plus **a PUI Track** *only in BIO and GEO* that extends eligibility to Full Professors *only at Primarily Undergraduate Institutions*
- What: An opportunity to substantively enhance and advance the PI's research program and career trajectory through synergistic and mutually beneficial mentored partnerships
- When: Target window: **1 February to 1 March** each year

MCA.info@nsf.gov and the <u>MCA FAQs</u> for more information

#### Mid-Career Advancement (MCA) Program – NSF 22-603



**Protected Time (salary):** Up to a total of 6.5 months of salary plus fringe over the course of the 3-yr grant, <u>not</u> <u>yearly</u>.



**Resources (direct costs):** \$100,000 in support of the research advancement and training plan.



**Partner:** Up to 1 month of summer salary (total, not yearly), *or* other reasonable costs, for each partner.

MCA.info@nsf.gov and the MCA FAQs for more information

# **NSF ETAP (Education & Training Application)**

- Easy way to discover and apply to opportunities that strengthen your academic career.
- Principal Investigators of NSF Awards can customize NSF's ETAP application to provide opportunities for applicants to participate in.



• ETAP currently does not include all of NSF Education and Training Opportunities available, but it is expanding.

## **IOS Cluster and Program Contacts**

Behavioral Systems	Suzy Renn	srenn@nsf.gov
Developmental Systems	Anna Allen	akallen@nsf.gov
Neural Systems	Floh Thiels	ethiels@nsf.gov
Plant Genome Research Program	Diane Jofuku Okamuro	dokamuro@nsf.gov
Physiological and Structural Systems	Ted Morgan	tmorgan@nsf.gov

## Blogs and Virtual Office Hours Across BIO

**IOS in Focus** 

https://iosblog.nsfbio.com/

DEBrief

https://debblog.nsfbio.com/

DBInfo

https://dbiblog.nsfbio.com/ MCB Blog

https://mcbblog.nsfbio.com

