



Division of Environmental Biology Virtual Office Hour

Opportunities for broadening the STEM community

Please submit questions via the Q&A button available to you on Zoom.

Please set to "Send anonymously"

April 8, 2024

Welcome!

Division of Environmental Biology

NSF staff in attendance today:

- **Jeremiah Busch** - Evolutionary Processes
- **Kendra McLauchlan** – Ecosystem Science
- **Jeremy Wojdak** (host) – Population and Community Ecology
- **Chris Balakrishnan** – Systematics and Biodiversity Science

Facilitators – Christina Washington and Megan Lewis



DEB Virtual Office Hour

DEB Office Hours: second Monday of each month, 1-2pm Eastern

Upcoming Topics:

May 13: CAREER Solicitation

June 10: Merit Review and How to Get Involved with NSF



DEB Blog posts upcoming topics, registration, and recap posts

<https://debblog.nsfbio.com/office-hours/>

DEBbrief

Blog of the Division of Environmental Biology, NSF

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Office Hours

Join us the **second Monday of each month from 1pm-2pm Eastern Time** for the Division of Environmental Biology's (DEB) Virtual Office Hours. Representatives from each of the four clusters will be available to discuss specific programs and funding opportunities. There will then be an open question and answer period – questions can be on any NSF or DEB topic.

Join us remotely and bring your questions! Please use the registration link below to set up your



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AUGUST 21, 2023 BY DEB SCIENCE STAFF

8/14/23 Virtual Office Hours Recap: Things I wish I learned earlier about NSF

The Division of Environmental Biology (DEB) held its latest Virtual Office Hour on August 14, 2023. Program Officers discussed things they've learned during the transition from Principal Investigator to NSF Program Officer, helpful tips and tricks when applying for NSF funding, common misconceptions about the Merit Review Process, and more. We host these office hours 1-2pm EST on the 2nd Monday of every month. There is a designated theme each time, but attendees are welcome to ask about other NSF-related topics. Program Officers (POs) from different research areas are present at each Virtual Office Hour, so a wide range of scientific perspectives are represented.

The presentation slides, recording, and other documents are available here:

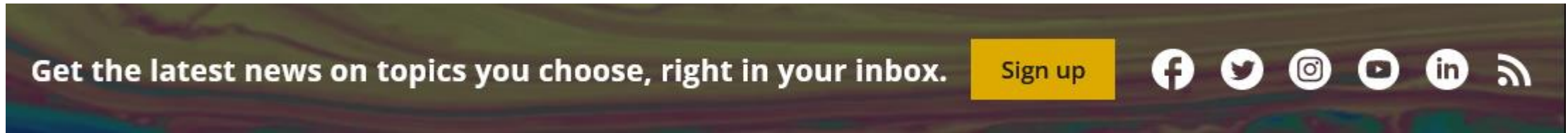


Search ...



BIO News and Updates

Visit www.nsf.gov and scroll down until you see the Sign up and social media banner, click on the yellow box, and follow the prompts.



Volunteer to review:

<https://www.surveymonkey.com/r/DEBexpertise>



Recent and Upcoming Funding Opportunities

Find links to all recent solicitations and DCL at the top of NSF.gov under Find Funding and Apply

- NSF 24-543 – DEB Core Programs - **No deadline**
- NSF 22-591 – Opportunities for Promoting Understanding through Synthesis (OPUS) – **No deadline**
- NSF 24-531 – Partnership to Advance Conservation Science and Practice (PACSP) – **Deadline April 24**
- NSF 22-500 – Building Research Capacity of New Faculty in Biology (BRC-BIO) – **Deadline July 1**
- NSF 22-542- Leading Culture Change Through Professional Societies of Biology (BIO-LEAPS) – **Deadline July 1**
- NSF 23-598 – Historically Black Colleges and Universities – Excellence in Research (HBCU-EiR) – **Deadline July 11**
- NSF 22-586 – Faculty Early Career Development (CAREER) - **Deadline July 24**
- NSF 21-584 – Research Experiences for Teachers Sites in Biological Sciences (BIORETS) – **Deadline July 31**
- NSF 23-601 – BIO Research Experience for Undergraduates Sites (BIO REU Sites) – **Deadline August 21**
- NSF 23-620 – Postdoctoral Research Fellowship in Biology (PRFB) – **Deadline November 7**
- [BIO 18-001](#) – Biological Sciences Temporary/Rotator Program Officer



DCL Innovative Use of Scientific Collections (24-069)

- **What:** Encourages the submission of proposals that foster Innovative Use of Scientific Collections and/or associated digital data for novel research, education, and training applications within and across STEM disciplines
- **Where:** DBI (Capacity: Biological Collections), DEB (EP, ES, PCE, SBS), CISE (IIS), GEO (EAR, OCE, OPP), and SBE (BCS, SES)
- **When:** Deadline/no deadline according to participating programs' solicitations
- **How:** Submit to relevant participating program with the prefix "IUSC:"



DCL Innovative Use of Scientific Collections (24-069)

Examples include, but are not limited to, proposals that:

- Propose innovative use of existing biodiversity, living stocks, geological, anthropological, and/or behavioral collections, images and other digital media, and collections-associated data, including to develop or apply new analytical techniques or to answer new scientific questions beyond the original intention of the collections
- Integrate the use of existing collections and collections-associated data in fields that traditionally have made little use of collections
- Create partnerships to use existing collections and collections-associated data in research, training, and education by PUIs, MSIs, and other under-resourced institutions
- Make use of biological, genomic, and/or geological samples and specimens collected by NEON and housed at the NEON Biorepository
- Use existing collections to engage students in authentic research experiences



NSF's Strategic Goals & Objectives



Empower

Empower STEM talent to fully participate in science and engineering



Discover

Create new knowledge about our universe, the world and ourselves



Impact

Benefit society by translating knowledge into solutions



Excel

Excel at NSF operations and management

- We can broaden participation within a “normal” research project.
- We can broaden participation via special opportunities or programs.



Within a “Normal” Research Project

- **Broader Impacts** often include efforts to broaden participation at various levels from K-12 to undergraduate to faculty.
 - See [Advancing Research Impact in Society \(researchinsociety.org\)](https://researchinsociety.org) for ideas, best practices, examples



Guiding Principles

What does NSF require?

Get a high-level overview of societally relevant outcomes and review criteria specified by NSF



Planning Checklist

What elements are needed in a BI project?

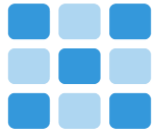
Use this list to review the key elements of an effective BI project proposal



BI Wizard

How do I develop my BI project proposal?

Our wizard will walk you through all of the key steps to building partnerships and effective projects



BI Project Rubric

How do I assess my project's potential?

Use this rubric to help you evaluate a Broader Impact project plan



Toolkit Quickstart and F.A.Q.

How do I use the tools in the ARIS BI Toolkit?

Learn about the various ways you can use the **ARIS Toolkit** to help you develop BI plans, review the BI plans of others, and communicate the societal impacts of your research.



BI Rubric Tutorial

Practice using the BI Rubric with an example plan

Use our example case study to practice evaluating a broader impacts plan using the **BI Rubric**. Then review our suggested ratings to see how all of the Toolkit tools can help you build a complete BI plan proposal.

ARIS

Advancing Research Impact in Society



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/>



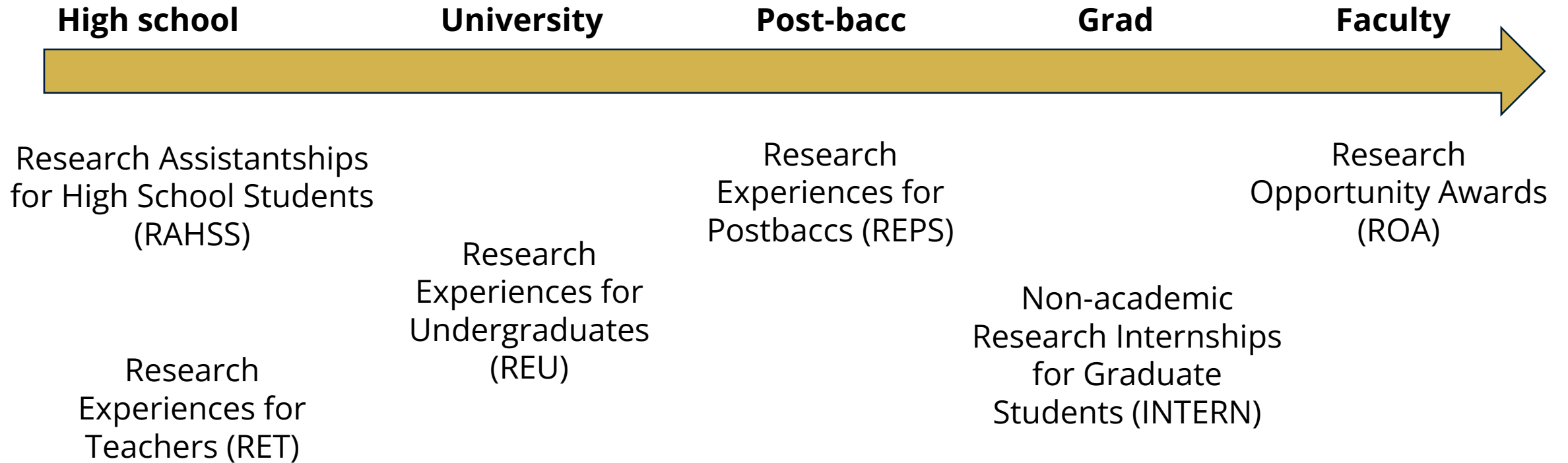
Within a “normal” research project

The potential of a project to broaden participation is often shaped by project staff planning and recruitment

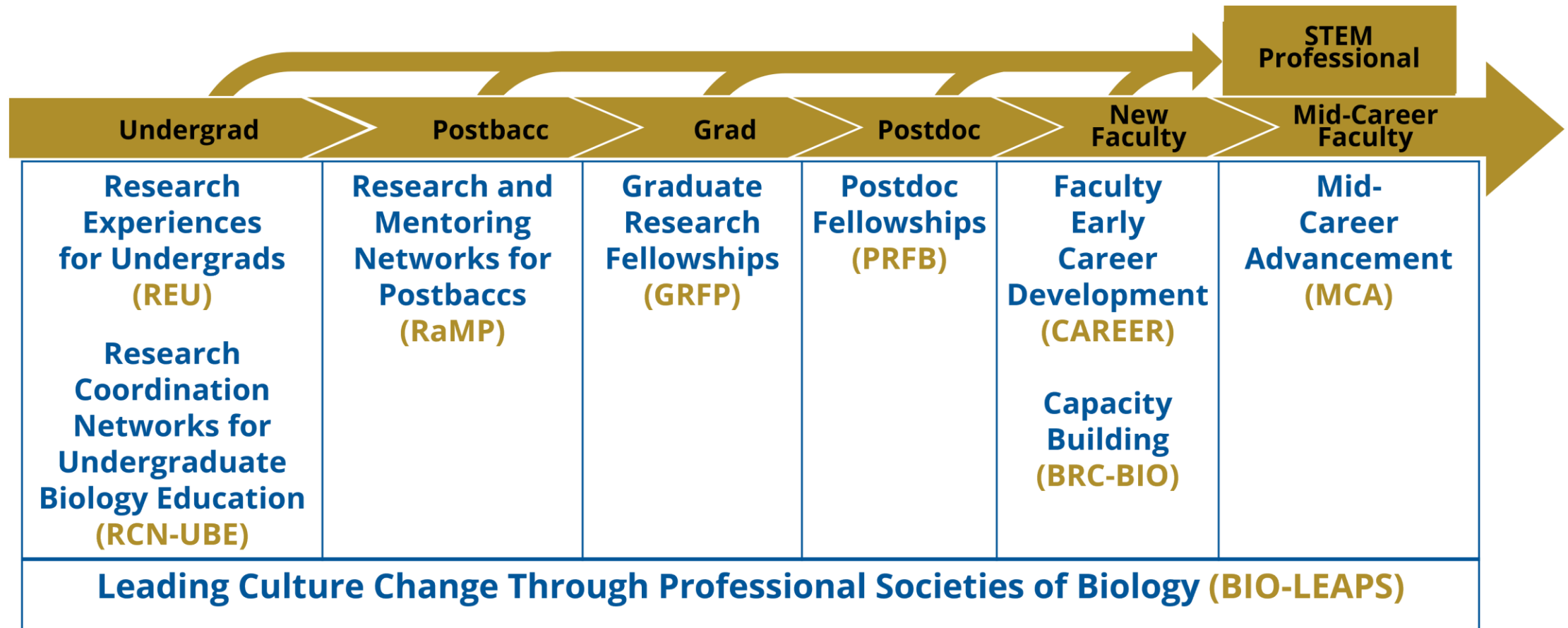
- How are people made aware of opportunities?
- Are you “pre-filtering” applicants?
- Could a different project/staffing structure benefit more people?
- Does the budget live up to the promises in the project description?



Within a “Normal” or Core Proposal: Supplements



Broadening participation via targeted programs



RaMP Research and Mentoring for Postbaccalaureates in Biological Sciences

- **Who:** There are no restrictions
- **What:** Networks to support full-time research, mentoring, and training for recent college graduates who have had few or no research or training opportunities during college in research fields typically supported by BIO.
 - Proposals are expected to create strong evidence-based and inclusive mentorship programs that will advance the goal of creating a competitive and highly representative science, technology, engineering, and mathematics (STEM) workforce in the U.S.
 - Transitions into the STEM workforce could include pathways into research-focused M.S. or Ph.D. programs, industry, federal or state agencies, education and research centers, and other STEM careers.
- **Where:** Institution of higher education or other non-profit organization in the U.S.
- **When:** January 18, 2024



PRFB Postdoctoral Research Fellowship in Biology

- **Who:** Recent recipients of doctoral degrees (past 15 months); U.S. citizen, national or permanent resident
- **What:** 3-year postdoctoral fellowship
- **Current themes:** Rules of Life, Plant Genomics, Broadening Participation
- **Where:** At any Institution of Higher Education or non-profit organization
- **When:** November 7, 2024

Contact: bio-dbi-prfb@nsf.gov or dbipgr@nsf.gov (Plant Genomics)



BRC-BIO Building Research Capacity of New Faculty in Biology

- **Who:** PIs must:
 - hold at least a 50% tenure-track (or tenure-track equivalent) position as an assistant professor (or equivalent rank)
 - be untenured
 - have both research and teaching components to their appointment
 - be within the first three years of their appointment
- **What:** Proposed projects should enable the establishment of research programs for new faculty to position them to apply for future grants to sustain their research and should also enrich undergraduate research experiences and thereby grow the STEM workforce.
- **Where:** MSIs, PUIs, and other universities and colleges that are not among the nation's most research-intensive and resourced institutions.
- **When:** Proposal window May 1-July 1, 2024.



MCA Mid-Career Advancement

- **Who:** Scientists and engineers at the Associate Professor rank (or equivalent) with at least 3 years at that rank
 - Pilot Track in **BIO** and **GEO** extends eligibility to Full Professors (or equivalent) at Primarily Undergraduate Institutions (PUIs) only
- **What:** An opportunity to substantively enhance and advance the PI's research program and career trajectory through synergistic and mutually beneficial mentored partnerships
- **Where:** At any U.S. Institution of Higher Education or non-profit organization
- **When:** Submission window between February 1 and March 1, annually

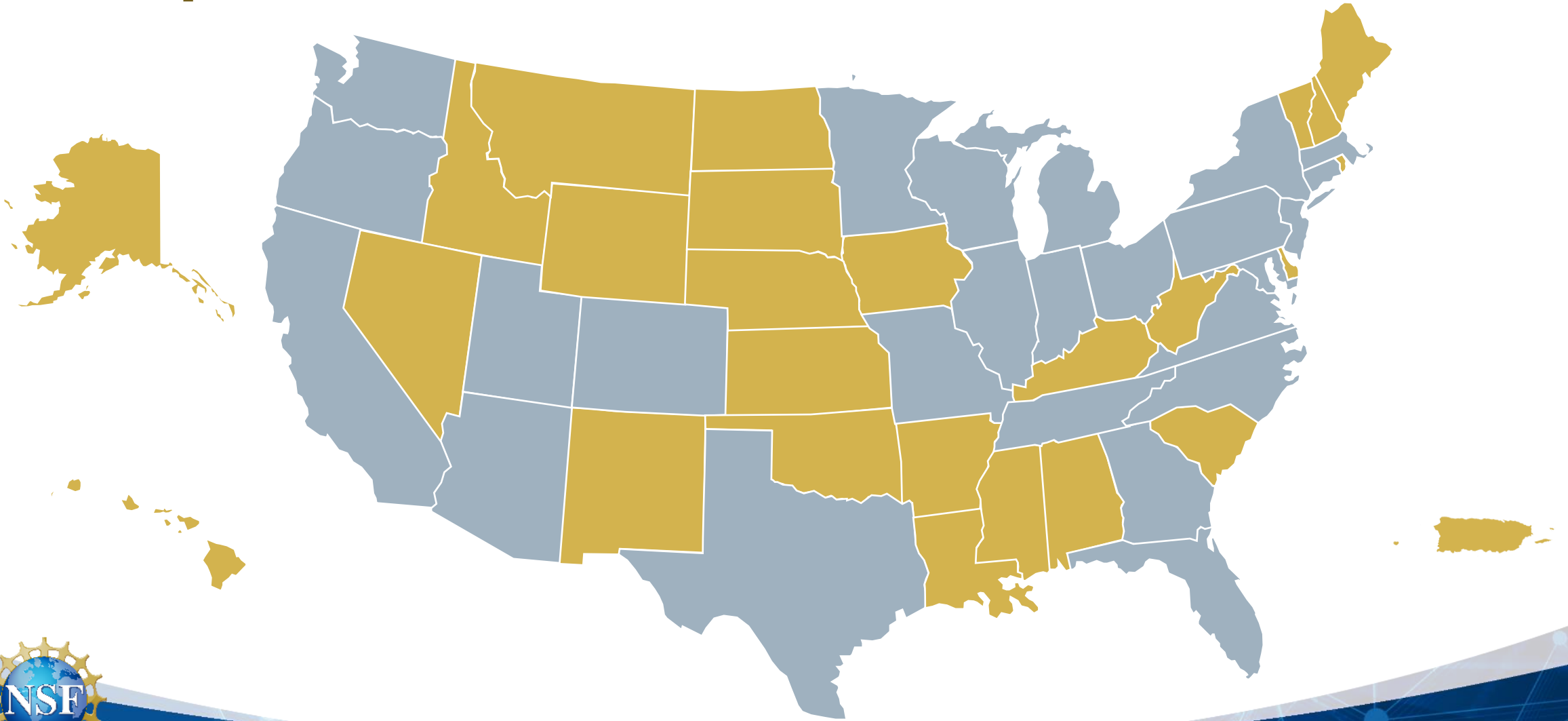


BIO-LEAPS Leading Cultural Change through Professional Societies of Biology

- **Who:** There are no restrictions
- **What:** Leverage the work of professional societies towards facilitating necessary culture change in the biological sciences to advance diversity, equity, and inclusion at scale.
 - Evaluation Track: Assessment and research of the values, norms, priorities, and practices associated with the culture of the discipline or sub-discipline.
 - Design Track: Develop an evidence-based plan to address broad-scale culture change within a discipline or sub-discipline.
 - Implementation Track: Implement evidence-based cultural change strategies that leverage the influence of biological professional societies.
- **Where:** Institution of higher education or other non-profit organization in the U.S.
- **When:** July 1, 2024



EPSCoR Established Program to Stimulate Competitive Research



Questions?

- **Submit your questions via the Q&A box on your screen and set to “Send anonymously”**
- Upvote questions by clicking the thumbs up icon next to the question you most want answered

