

# Virtual Office Hour

## Biodiversity on a Changing Planet (BoCP)

### NSF 22-508

Welcome to the Virtual  
Office Hour.  
We will begin soon.

Please submit questions  
via the Q&A button  
available to you on  
ZOOM. Please set to  
“Send anonymously”

# Virtual Office Hour – Welcome!

Program Officers in attendance today

All can be reached at [biodiversity@nsf.gov](mailto:biodiversity@nsf.gov)

- Kendra McLauchlan – Ecosystem Sciences
- Diana Pilson – Evolutionary Processes
- Katharina Dittmar – Systematics and Biodiversity Sciences
- Irwin Forseth – Integrative Organismal Systems
- Jean Gao – Division of Biological Infrastructure
- Petra Lenz – Biological Oceanography
- Julie Pett-Ridge – Geobiology and Low-Temperature Geochemistry
- Andrea Porras- Alfaro – Population and Community Ecology
- Dena M. Smith-Nufio – Sedimentary Geology and Paleobiology
- Jeremy Wojdak (host) – Population and Community Ecology

**Facilitators** – Christina Washington, Bill Lawson, and Megan Lewis



# Recent Solicitations

Find links to all recent solicitations at the bottom of the DEB webpage (WebSearch: NSF DEB) under Funding Opportunities and Popular Links

**Remember** – Core DEB solicitation (**NSF 21-504**) has no deadlines and no submission limits.

- **NSF 21-609** – Ecology and Evolution of Infectious Diseases (EEID) – **Deadline Nov. 24**
- **NSF 21-614** – Postdoctoral Research Fellowship in Biology (PRFB) – **Deadline Dec. 6**
- **NSF 22-500** – Building Research Capacity of New Faculty in Biology (BRC-BIO) – **Proposal window Jan. 3-31**
- **NSF 22-504** – Macrosystems Biology and Neon-Enabled Science (MSB-NES) – **Deadline Jan. 10**
- **NSF 21-619** – Biology Integration Institutes (BII) – **Deadline Jan. 12**
- **NSF 22-506** – Research and Mentoring for Postbaccalaureates in Biological Sciences (RaMP) – **Deadline Jan. 20**
- **NSF 21-622** – Integrative Research in Biology (IntBIO) – **Deadline Jan. 25**
- **NSF 22-510** – Dark Dimensions of the RNA Regulome: An Ideas Lab Activity (D2R2) – **Deadline Jan. 31**
- **NSF 21-516** – Mid-Career Advancement (MCA) – **Target date Feb. 7**
- **NSF 22-508** – Biodiversity on a Changing Planet (BoCP) – **Deadline March 25** ←
- **NSF 22-513** – Organismal Response to Climate Change (ORCC) – **Deadline March 1**



# Division of Environmental Biology

## Virtual Office Hour

- DEB Office Hours: second Monday of each month, 1-2 pm Eastern
- Today: Biodiversity on a Changing Planet

### Upcoming Topics:

Dec 13: How to Write a Great Annual Report and Other Post Award Actions

Jan 10: Mid-Career Advancement Solicitation

Feb 14: How to Write a Review

Volunteer to review for DEB:

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



# Webpage for DEB Office Hours

schedule, registration and recap posts

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

## DEBrief

Blog of the Division of Environmental Biology, NSF

[Home](#) [DEB Resources and Links](#) [Office Hours](#) [About](#) [Blog Policies](#)



### 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



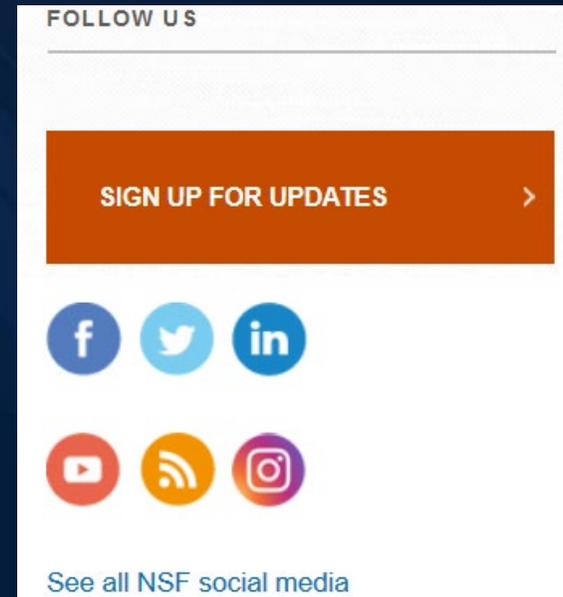
 Follow ...



# BIO Newsletter

Sign-up for quarterly emails, including information on new priorities and solicitations, highlights from the community, and more!

Visit [www.nsf.gov](http://www.nsf.gov) and scroll down until you see the orange sign-up box, click, and follow the prompts.



# Biodiversity on a Changing Planet – NSF 22-508

The program aims to develop a synthetic understanding of function in the context of the constant loss, gain, maintenance, and reorganization of biodiversity on a changing planet.

Proposals due: March 25, 2022

Submit Proposals



# Grand Challenges in Biodiversity Science

- Understand how functional diversity interacts with and responds to environmental change
- Understand planetary biodiversity from a functional perspective using an integrative approach



# Many types of integrative research are welcome in BoCP

- Successful BoCP proposals will test hypotheses about functional biodiversity on a changing planet by integrating cellular, organismal, ecological, evolutionary, geological, and/or paleontological perspectives.
- This program aims to allow predictions of functional consequences across temporal and spatial scales, considering the linkages between past, present, and future biological, climatic, and geological processes.
- Builds on and expands former Dimensions of Biodiversity program and incorporates elements of Bridging Ecology and Evolution (BEE) track.



# Biodiversity on a Changing Planet – Partnerships

- **Biological Sciences Directorate**

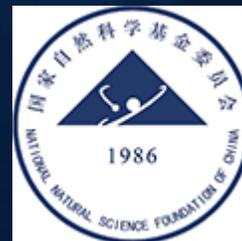
- Division of Environmental Biology
- Division of Integrative Organismal Systems
- Division of Biological Infrastructure

- **Geological Sciences Directorate**

- Division of Earth Sciences
- Office of Polar Programs (Ocean Sciences)

- **International Agreements**

- National Natural Science Foundation China
- FAPESP (Sao Paulo, Brazil)
- National Research Foundation South Africa



# Biodiversity on a Changing Planet - Proposals

## Types of Proposals

- US-only collaboration funded by NSF
- US-only collaborative proposal with international collaborators
- International collaboration - US researchers funded by NSF; Chinese, South African, Brazilian collaborating institutions funded by partner agencies

## Two Funding Tracks

### Design Track:

- Build new teams with no prior collaboration
- Develop creative research and technical approaches
- Up to \$500,000 over 3 years

### Implementation Track:

- Teams ready to implement large-scale project
- Substantial research advances in understanding functional biodiversity on a changing planet
- Up to \$2,500,000 over 5 years



# BoCP encourages the use of new technology and team science approaches

## Data Infrastructure

- Proposals that add to or use existing data infrastructure are encouraged
- Proposals based entirely on data reuse are welcomed

## Polar and/or Marine Field Work

- Discuss with BoCP Program Officer before submission at [biodiversity@nsf.gov](mailto:biodiversity@nsf.gov)



# Two additional required documents

## 1. Recruitment, Training and Mentoring Plan (2 pages)

- specific plans for workforce development and/or broadening participation

## 2. Project Management Plan (2 pages)

- describe strategies for developing collaborative teams that include diverse perspectives, facilitate effective and timely accomplishment of goals, develop leadership capacity, and foster teamwork skills



# Review Criteria

- **Intellectual Merit** – What is the potential to advance knowledge?
- **Broader Impacts** – What is the potential to benefit society and contribute to the achievement of specific, desired societal outcomes?



# Solicitation- Specific Review Criteria

- Does the research proposal describe a collaborative, comprehensive and integrative approach to significantly advance our understanding of the functional roles of biodiversity on a changing planet?
- To what degree does the Project Management Plan engender confidence that the research team will effectively coordinate activities and achieve the goals of the proposed project?
- Does the Recruitment, Training, and Mentoring Plan describe high-quality opportunities for workforce development and/or broadening participation?
- For proposals with Broader Impact activities that specifically aim to increase the participation of underrepresented groups in biodiversity research, to what degree does the activity convey that work is genuinely led by, or developed and led in authentic partnership with, individuals and communities from underrepresented groups?
- For the US-China, US-São Paulo, US-South Africa and multilateral collaborative research projects, to what extent do they demonstrate substantial collaboration between the US and China, São Paulo, and/or South African partners?



# Virtual Office Hour

## 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
- For recently asked questions and future office hour topics, see the DEB blog (<https://deblog.nsfbio.com/>)
- For specific questions about your project, please contact a Program Officer
- Questions after today: email [biodiversity@nsf.gov](mailto:biodiversity@nsf.gov)

