



Division of Environmental Biology Virtual Office Hour

Biodiversity on a Changing Planet
(NSF 24-574)

***Please submit questions via the Q&A button available to you on Zoom.
Please set to "Send anonymously"***

Welcome!

Division of Environmental Biology

Program Officers in attendance today:

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

- Chris Balakrishnan (host) – Division of Environmental Biology (BIO)
- Matt Herron - Division of Environmental Biology (BIO)
- Rebecca Gast – Office of Polar Programs (GEO)
- Ricardo Letelier – Division of Ocean Science (GEO)



Biodiversity on a Changing Planet (BoCP) NSF 24-574

The main focus of the program is the connection between functional biodiversity and biodiversity dynamics on a changing planet

Proposals due: September 5, 2024



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 5 years



Two Additional Required Documents

1. Plan for Safe and Inclusive Working Environments

- NSF BIO and GEO require that proposals with off-campus or off-site research submit a Plan for Safe and Inclusive Working Environments. This is in addition to the new certification required of all proposers submitting to NSF in which off-campus or off-site research is proposed (see Chapter II.E.9 in the PAPPG, NSF 24-1). Please find FAQs at <https://www.nsf.gov/pubs/2023/nsf23071/nsf23071.jsp>

2. Project Management Plan (2 pages)

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



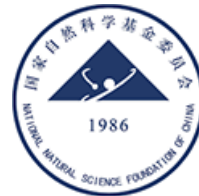
Many types of integrative research are welcome in BoCP

- Successful BoCP proposals will test novel hypotheses about functional biodiversity and its connections to shifting biodiversity dynamics on a changing planet, considering climatic, geological, paleontological, and biological processes.
- Integrative research is likely to combine multiple perspectives-- including organismal, species, ecological, evolutionary, phylogenetic, geological, and/or paleontological approaches-- at various scales.
- Proposals that seek to improve predictive capability about functional biodiversity across temporal and spatial scales by considering the linkages between past, present, and future biological, climatic, and geological processes are also encouraged.



Biodiversity on a Changing Planet – Partnerships

- NSF Biological Sciences Directorate
 - Division of Environmental Biology
 - Division of Integrative Organismal Systems
 - Division of Biological Infrastructure
- NSF Geological Sciences Directorate
 - Division of Earth Sciences
 - Office of Polar Programs
 - Division of Ocean Sciences
- International Agreements
 - National Natural Science Foundation China
 - FAPESP (Sao Paulo, Brazil)
 - National Research Foundation South Africa



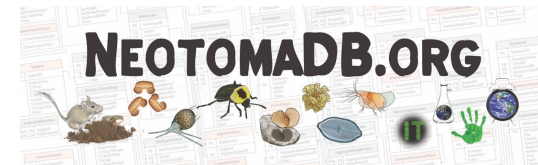
BoCP encourages the use of new technology and team science approaches

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
biodiversity@nsf.gov



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?
 - Plan for Safe and Inclusive Work Environments
 - Postdoc Mentoring Plan if applicable



Solicitation-specific Review Criteria

- What is the potential for the proposed work to integrate ecology and evolution, bridge disciplinary and geographic divides, push conceptual boundaries, and contribute new theory regarding the understanding of functional biodiversity and its relationship to shifting biodiversity under environmental change?



Solicitation-specific Review Criteria

- 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?
- For **Design Track** proposals, to what extent does the proposal describe the building of a new collaboration, strengths of the new team to address proposed biodiversity research challenges, inclusive team science, and specific activities to facilitate communication, coordination, and participation of all team members and participating institutions?
- 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? The most competitive projects will be those in which the international collaboration brings substantial additional value to the project.



Solicitation-specific Review Criteria

Reviewers will also be instructed to evaluate the **Safe and Inclusive Fieldwork (SAIF) Plan** within the Broader Impacts review criterion

- 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?

Please find FAQs for SAIF plans at <https://www.nsf.gov/pubs/2023/nsf23071/nsf23071.jsp>



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 specific questions about your project, please email **biodiversity@nsf.gov**

