



Division of Environmental Biology Virtual Office Hour

Welcome to DEB

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

Welcome!

Division of Environmental Biology

NSF staff in attendance today:

- Jeremy Wojdak (host) – Population and Community Ecology
- Chris Balakrishnan – Systematics and Biodiversity Science
- Catherine O' Reilly– Ecosystem Science
- Kim Hughes – Evolutionary Processes

Facilitators – Christina Washington and Bill Lawson



DEB Virtual Office Hour

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

Upcoming Topics:

- November 13: Safe and Inclusive Fieldwork (SAIF) Plans and other changes to proposal submission you need to know
- December 11: Introduction to the Directorate for Technology, Innovation and Partnerships (TIP)



DEB Blog posts upcoming topics, registration, and recap posts

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

DEBrief

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:

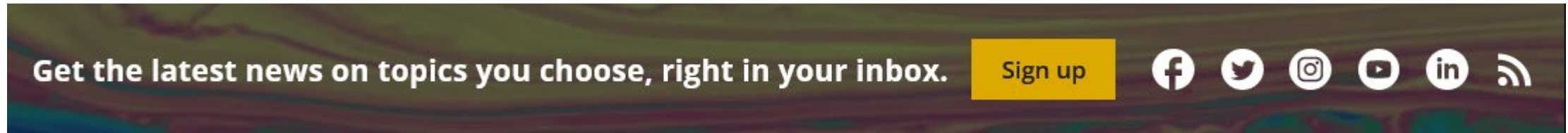


Search ...



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

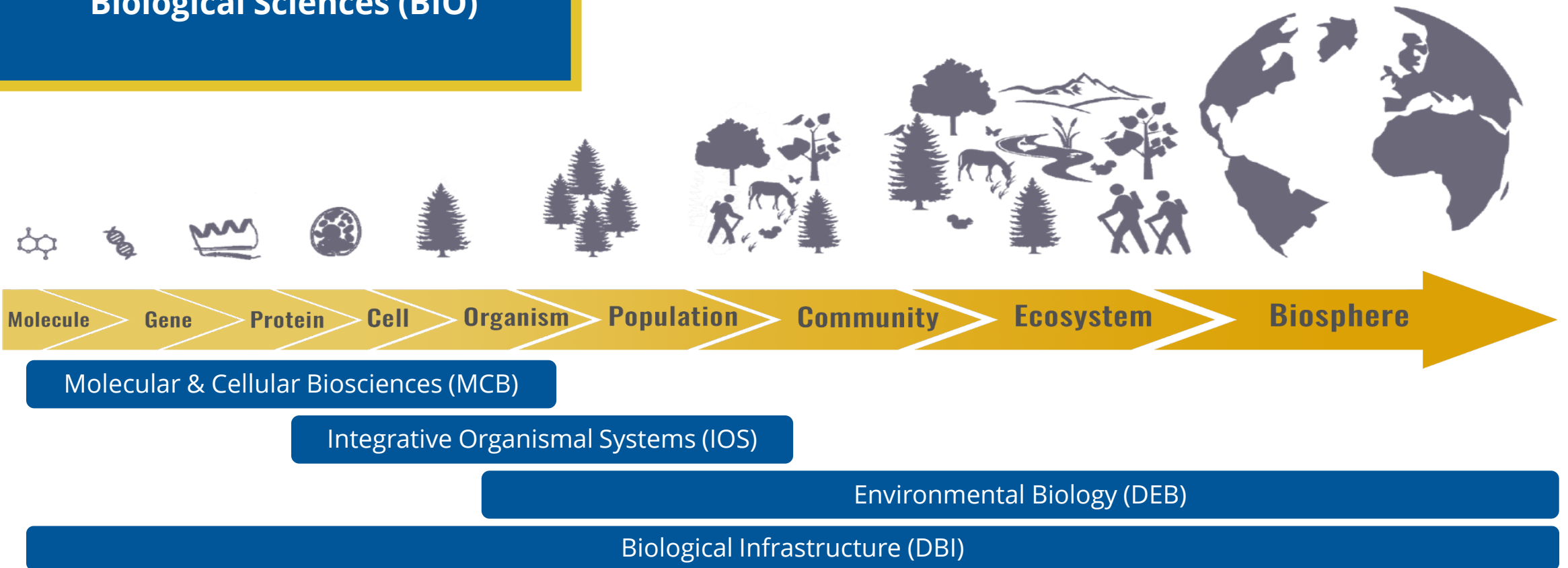
Find links to all recent solicitations and DCL at the left side of the BIO webpage under Funding

Remember – Many BIO solicitations have no deadlines and no submission limits.

- NSF 23-549 – Division of Environmental Biology Core Programs - **No deadline**
- NSF 22-591 – Opportunities for Promoting Understanding through Synthesis (OPUS) – **No deadline**
- NSF 22-504 – Macrosystems Biology & NEON-Enabled Science (MSB-NES) – **Deadline Nov 13**
- NSF 20-579 – Dynamics of Integrated Socio-Environmental Systems (DISES) – **Deadline Nov 15**
- NSF 23-616 – Ecology and Evolution of Infectious Diseases (EEID) – **Deadline Nov 15**
- NSF 22-513 – Organismal Response to Climate Change (ORCC) – **Deadline Nov 21**
- DCL 23-055 – Bioinspired Design Collaborations to Accelerate the Discovery-Translation Process (BioDesign)
- DCL 23-092 – Dear Colleague Letter: Availability of Earth Observation Data for NSF-Funded Researchers
- [BIO 18-001](#) – Biological Sciences Temporary/Rotator Program Officer



Directorate for Biological Sciences (BIO)



Division of Environmental Biology (DEB)

Core Solicitation NSF 23-549

Proposals accepted anytime, no PI limits

Ecosystem Science

Ecosystem structure and function across spatial and temporal (including paleo) scales

Population and Community Ecology

Conceptual understanding of population ecology, species interactions and community dynamics

Evolutionary Processes

Evolutionary dynamics and their consequences

Systematics and Biodiversity Science

Diversity, systematics, and evolutionary history of extant / extinct organisms in natural systems



“Life history” view of NSF support

Undergrad

REU – Research Experience for Undergraduates ([23-601](#))

Postbacc.

RET – Research Experience for Teachers ([21-584](#))

RAMP – Research and Mentoring for Postbacc ([23-514](#))

Grad.

GRFP – Graduate Research Fellowship Program ([23-605](#))

Postdoc – Postdoctoral Research Fellowships in BIO ([23-620](#))

New faculty

CAREER – Faculty Early-career Development Program ([22-586](#))

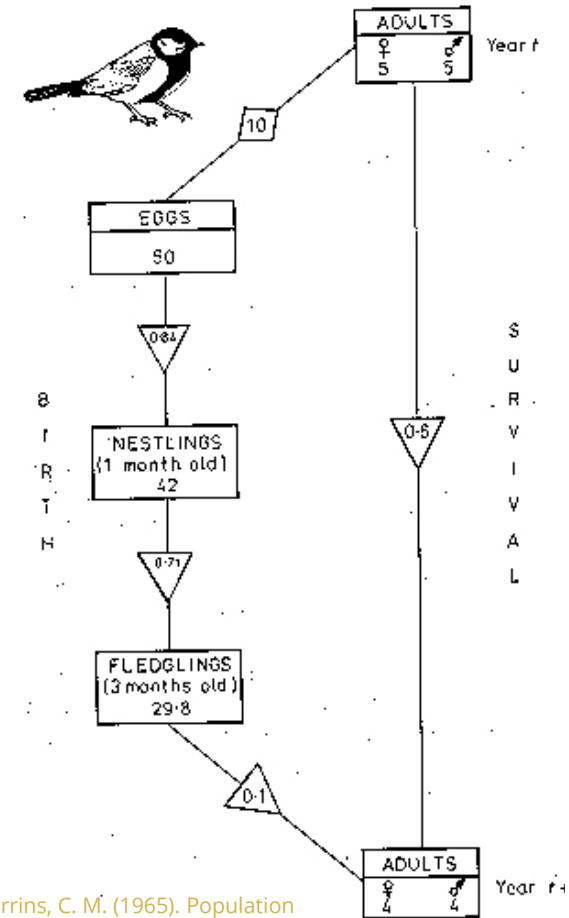
BRC-BIO – Building Research Capacity of New Faculty in Biology ([22-500](#))

Assoc. Prof

MCA – Mid-Career Advancement ([22-603](#))

Senior Faculty

OPUS – Opportunity for Promoting Understanding through Synthesis ([22-591](#))



Perrins, C. M. (1965). Population fluctuations and clutch-size in the Great Tit, *Parus major* L. The Journal of Animal Ecology, 601-647.



Ecosystem Science (ES): Ecosystem structure and function across diversity of spatial and temporal (including paleo) scales

1. Material and energy fluxes and transformations within and among ecosystems;
2. Roles and relationships of ecosystem components in whole system structure and function;
3. Ecosystem dynamics, resilience, and trajectories of ecosystem change through time; and
4. Linkages among ecosystems in space, time, and across spatial and temporal scales.
5. Supports research on natural, managed, and disturbed ecosystems, including those in terrestrial, freshwater, wetland, coastal (including salt marsh and mangrove), urban environments.



Population and Community Ecology (PCE): supports research that advances the conceptual or theoretical understanding of population ecology, species interactions, and/or community dynamics.

- Topics include: population dynamics, demography, and fundamental ecological interactions affecting populations, communities and their environments.
- Themes include: population regulation; food-web structure; trophic dynamics; species interactions; mechanisms of coexistence; maintenance of species diversity; community assembly; paleoecology; landscape ecology; conservation and restoration biology; behavioral ecology; macroecology

PCE Encourages:

- 1) Integration of theoretical, modeling and empirical approaches; synthesis across spatial and temporal scales
- 2) Testing existing theory; distinguishing among mechanisms; developing novel methods ask new questions.

Terrestrial, wetland, intertidal and freshwater habitats



The **Evolutionary Processes Cluster (EP)** supports **empirical** and **theoretical** research that makes inference about **evolutionary** dynamics and their consequences.

Scales: Molecules, Organisms, Populations, Species, Clades

Topics: Mutation, Selection, Drift, Genomic rearrangements, Recombination, Life-history changes, Divergence, Speciation, Hybridization, Genome-Phenome relationships, Epigenetic inheritance, Interspecific interactions, Gene flow, Geographic movements, Extinction



Systematics and Biodiversity Science (SBS)

- Research on the diversity, systematics, and evolutionary history of extant or extinct organisms in natural systems
- All "tree-based" studies of organismal evolution, including tree-building at all taxonomic levels, tree-based studies of character evolution and biogeography, and tree-enabled comparative biology
- Expeditionary and exploratory research to discover, identify, describe, classify, and catalog the world's biodiversity, using clade-, guild-, or geography-based approaches

Two systematics-focused special categories in the DEB solicitation:

- **ARTS:** Advancing Revisionary Taxonomy and Systematics—funds species-level taxonomic work and revisionary monography. Must include substantial training component (DCL 17-139)
- **PurSUiT:** Poorly Sampled and Unknown Taxa—funds projects that fill significant gaps in biodiversity knowledge (i.e., explores “dark” parts of the Tree of Life) and integrates taxon information in an evolutionary / taxonomic framework. (DCL 20-059)

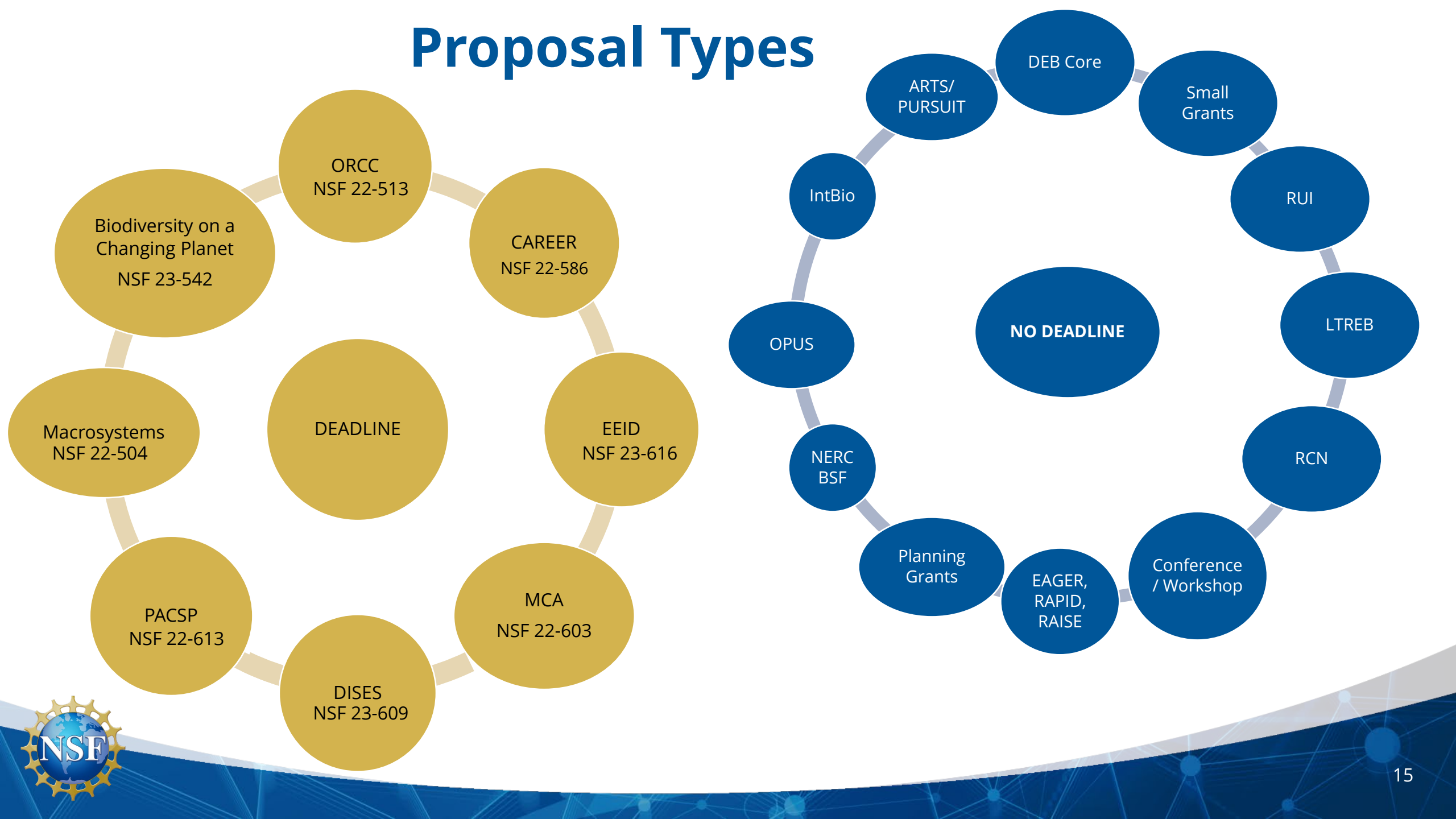


DEB Core Program Solicitation

NSF 23-549



Proposal Types



DEB Core Program Solicitation

NSF 23-549

- **Starting October 23, 2023:** PIs and other senior personnel are **required** to use the SciENCv format **only** for preparation of the Biographical Sketch and Current and Pending support
- **Safe and Inclusive Work Environments** for off-site research statement **required** upon submission
- **Data Management Plans – check out new guidance on specimen management.**

Check out the DEB Blog for more information

<https://debblog.nsfbio.com/>



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

