



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:

- Melissa Coleman (Neural Systems Cluster)
- Courtney Jahn (Plant Biotic Interactions Program)
- Joanna Shisler (Symbiosis, Infection and Immunity Program)

Administrative Support & Technical Assistance:

- Liz Bell, Program Specialist



IOS Virtual Office Hour

Today's Topics

- Updates and Reminders
- Recent Solicitations and Dear Colleague Letters (DCLs)
- How to write a 1-pager and talk to Program Directors
- Q&A with Program Directors



NSF's Broadening Participation Portfolio

Relevant opportunities

Dear Colleague Letter: STEM Access for Persons with Disabilities (STEM-APWD) (NSF 23-160)

Centers of Research Excellence in Science and Technology – Research Infrastructure for Science and Engineering (CREST-RISE) (NSF 24-562)

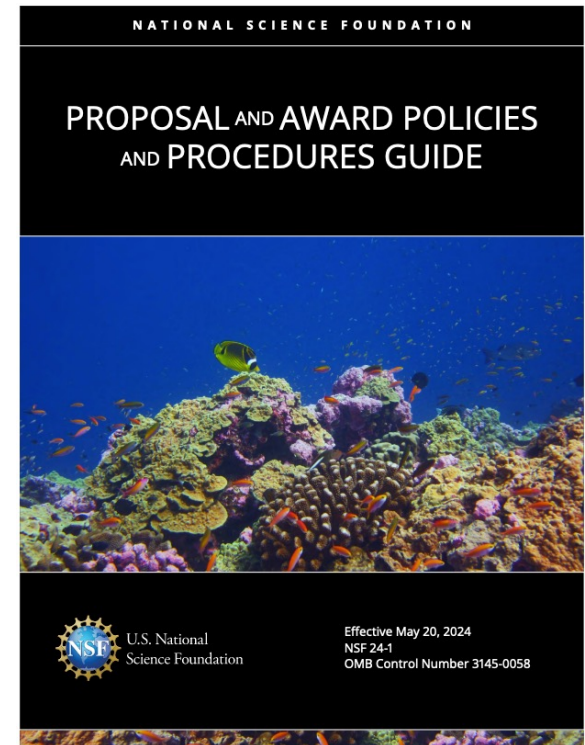
Centralized information available on NSF's broadening participation portfolio websites:

- <https://new.nsf.gov/funding/initiatives/broadening-participation>
- https://www.nsf.gov/od/broadeningparticipation/bp_portfolio_dynamic.jsp
- <https://new.nsf.gov/funding/initiatives/broadening-participation/granted#events-56a>



New PAPPG (NSF 24-1) Effective May 20, 2024

- We are pleased to announce that a revised version of the NSF **Proposal and Award Policies and Procedures Guide** (PAPPG) (NSF 24-1) has been issued.
- The new PAPPG will be effective for **proposals submitted or due on or after May 20, 2024**.
- We strongly encourage you to view the **Summary of Changes** included in the PAPPG.
- While this version of the PAPPG becomes effective on May 20, 2024, in the interim, the guidelines contained in the current PAPPG (NSF 23-1) continue to apply.

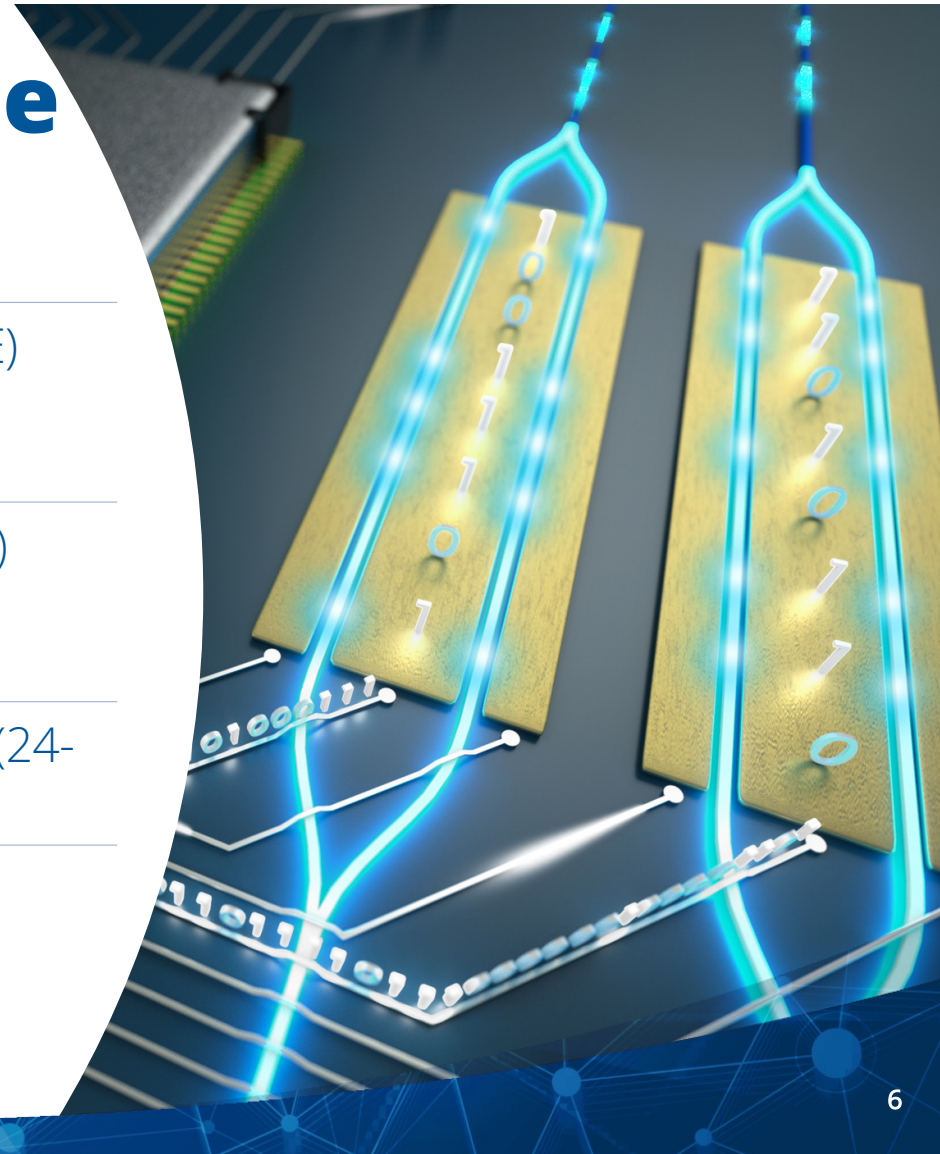


Recent Dear Colleague Letters (DCLs)

DCL: Neurobiology in Changing Ecosystems (NiCE) (NSF 24-044) – Follow guidance for IOS Core Programs

DCL: Leveraging Innovations from Evolution (LIFE) (NSF 24-049) – Follow guidance for IOS Core Programs

DCL: Innovative Use of Scientific Collections DCL (24-069) – Follow Guidance for DEB Core Programs



Recent Solicitations

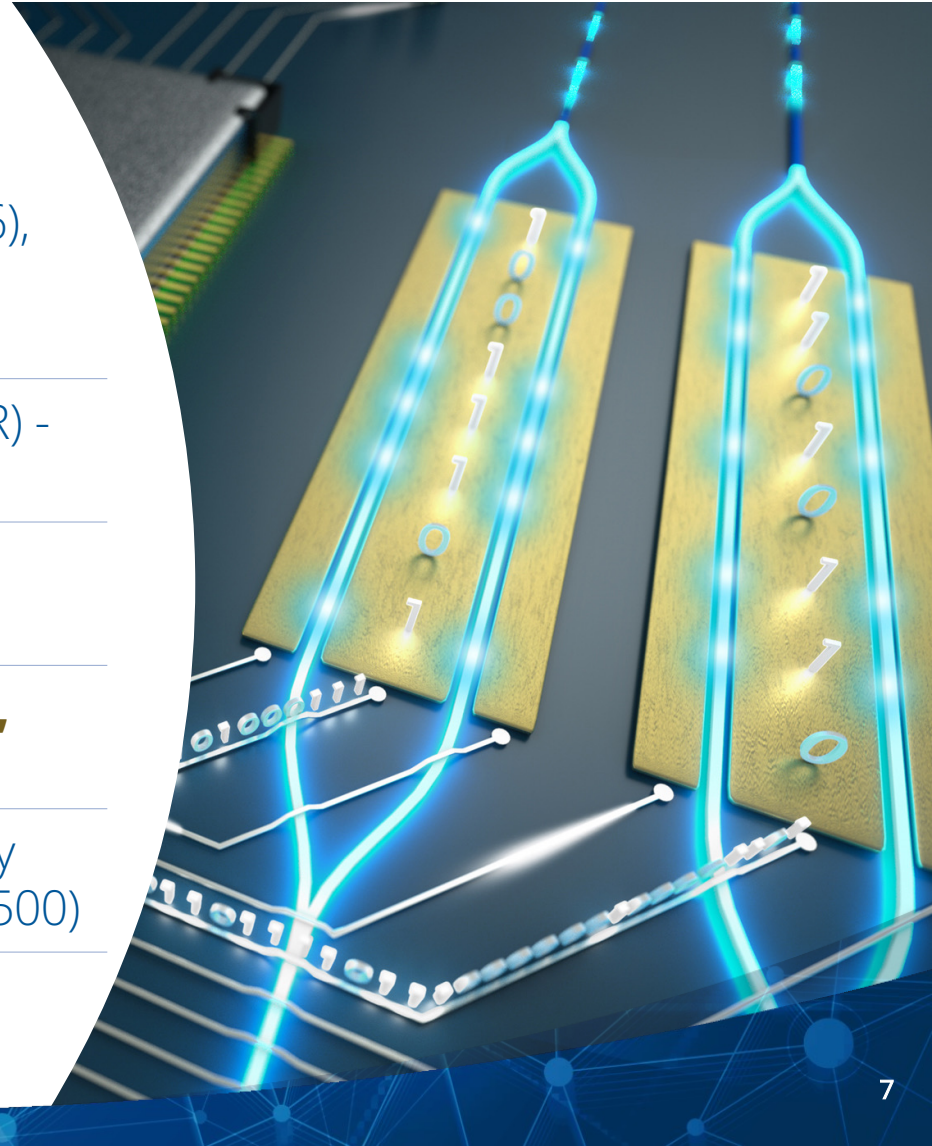
IOS Core Programs solicitation (24-546), PBI (20-576), and PGRP (NSF 24-547) – No deadlines and no submission limits

Faculty Early Career Development Program (CAREER) - **July 24, 2024** (NSF 22-586)

Partnership to Advance Conservation Science and Practices (PACSP) - **April 24, 2024** (NSF 24-531)

NSF-Research Traineeship Program (NRT) – **Sept. 6, 2024** (NSF 21-536)

Building Research Capacity of New Faculty in Biology (BRC-BIO) – **window May 1-July 1, 2024** (NSF 22-500)



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: **May 16, 2024**
 - CAREER proposals





Talking to Your Program Director

One of the most common pieces of advice I give is
“Talk to your Program Director”

This provides an opportunity to:

- Introduce yourself, your research program, and specific project idea
- Seek guidance on the fit of your project idea within/across NSF
- Ask questions about the submission and review process
- Learn about other relevant funding opportunities

Best way to contact your Program Director?

- Email a 1-pager



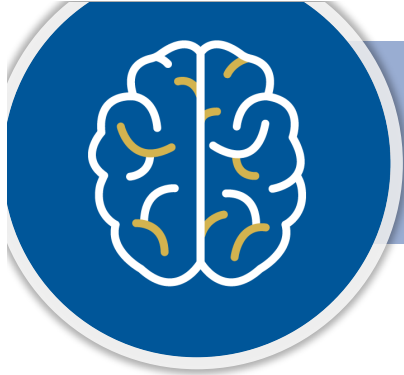


What Is The Purpose of a 1-pager?

A 1-pager is a Tool for both you and the Program Director.

- 1-pagers help **YOU** organize your ideas before you talk to a Program Director
- 1-pagers help **PROGRAM DIRECTORS** determine fit to program for a project and prepare useful feedback for meeting with you





Before You Start

Do your homework...

- Peruse the NSF website (www.nsf.gov) and search awards (www.nsf.gov/awardsearch) to identify the most appropriate Program and Program Director
- Read info on Division websites to learn about the scientific priorities of specific programs
- Read relevant solicitations (e.g., For IOS: NSF 24-546 for IOS CORE, 21-546 for EDGE)
- If you have never submitted to NSF before, skim the intro chapter of the Proposal & Award Policies & Procedures Guide (PAPPG); NSF 24-1





What is a 1-pager?

A 1-pager should mirror the format of the NSF Project Summary of an NSF proposal and include:

- a brief overview,
- a statement of the **intellectual merit** of the proposed research activity, and
- a statement on the **broader impacts** of the proposed activity.

All NSF proposals are reviewed through use of the two National Science Board-approved merit review criteria: Intellectual Merit and Broader Impacts.

Some proposals have additional review criteria described in the funding opportunity as Additional Solicitation Specific Review Criteria.





The Brief Overview of a Good 1-pager Includes... Overarching Biological Questions

What is the 30,000-foot view of your project?

For example:

How do cells know when to stop dividing?

Things you may care about that can help answer that question:

special proteins called cyclins, gene regulation, epistasis, chemical signaling, DNA damage or degradation, the cell's internal clock, p53-p21-Cyclin/CDK-DREAM-CDE/CHR pathway

Tie what you care about to the overarching biological question





The Intellectual Merit of a Good 1-pager Includes...

A description of the project's potential to advance knowledge

Include

- The big picture of your research area
- Knowledge gaps you are addressing
- The hypotheses you will use to address this question
- Specific aims and what you are planning to do
- Any key preliminary data

Highlight, as appropriate

- Potentially innovative or transformative elements
- Interdisciplinary aspects of the research





The Broader Impacts of a Good 1-pager Includes:

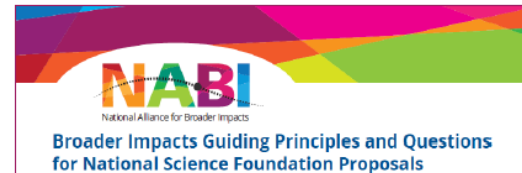
A description of the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

A **common mistake** is to solely focus on the **Intellectual Merit**

Make sure to briefly describe your **Broader Impacts** so that we can provide feedback on this area as well

Need resources?

<https://www.researchinsociety.org/guiding-principles>





Good 1-pagers State How Your Ideas Align With the Program and Solicitation Requirements

Tell us how your project aligns with the scope of the program.

If you aren't sure about fit, ask when you write to the Program Director.

Include how you will address the solicitation specific criteria.

To be competitive, this additional information must be addressed in your proposal, so get feedback before you apply.

Be strategic and specific!

Use the 1-pager to tell us what you are proposing to do.

Keep background information to a minimum, use most of the page to explain your hypotheses and your approach(es).





General Dos and Don'ts

Dos	Don'ts
Present relevant info on the current state of the field	Waste half a page on general knowledge
Highlight overarching hypotheses and tightly focused specific aims	Bury the core goals and strengths of the project in dense text
Provide an overview of planned approaches or experiments	Get bogged down in experimental details
Explain your motivation	Propose research that is Human Health motivated
Write clearly and avoid technical jargon	Make the font too small; it's OK if your 1-pager goes a bit over



What Do Program Directors Do With Your Query?

Usually, we will acknowledge receipt of your email, ideally within timeframe for useful feedback.

Behind the scenes, we may:

- Discuss the idea with other colleagues in the program
- Request feedback from other programs if the idea is interdisciplinary or not a good fit for our program. This may include:
 - Other programs in IOS and/or BIO and/or other NSF directorates
 - Outside NSF





What You Should Expect in Response

Program Director follow-up usually includes:

- Feedback in an email message if your project is a fit to the program
- Encouragement to submit a proposal
- Any specific advice
- An invitation to schedule a phone or Zoom conversation. This provides an opportunity for you to ask specific clarifying questions about:
 - the solicitation, (including solicitation specific criteria);
 - your proposal ideas and preparation; and
 - other NSF funding opportunities that may be appropriate for your project

If the proposal ideas are not a fit for the program, we will usually provide:

- Advice on other programs to consider
- Name of the cognizant Program Director(s)





What to Do If You Don't Get a Response?

Responses to one-pager queries typically take a week to respond.

Do

Follow up if you don't hear back from us in about two weeks (or so)

Don't

Assume we don't care
(We get a lot of email)

If you do not hear back within two weeks, then please send a gentle reminder—we all get busy and we don't want things to fall through the cracks!





An Example Template: Include the Following Helpful Information

First Name, Last Name, Organization Name, Email

Target Program, Potential Secondary Program(s)

Proposal Type (full titles provided on the template): Research, CAREER, MCA, RAPID, EAGER, RAISE, GOALI, Conference, Center/Research Infrastructure, or Fellowship. (***Further information on these opportunities can be found in the PROPOSAL & AWARD POLICIES AND PROCEDURES GUIDE (PAPPG) and program solicitations.***)

Relevance to Program: 1-2 sentences about how your research fits the program goals

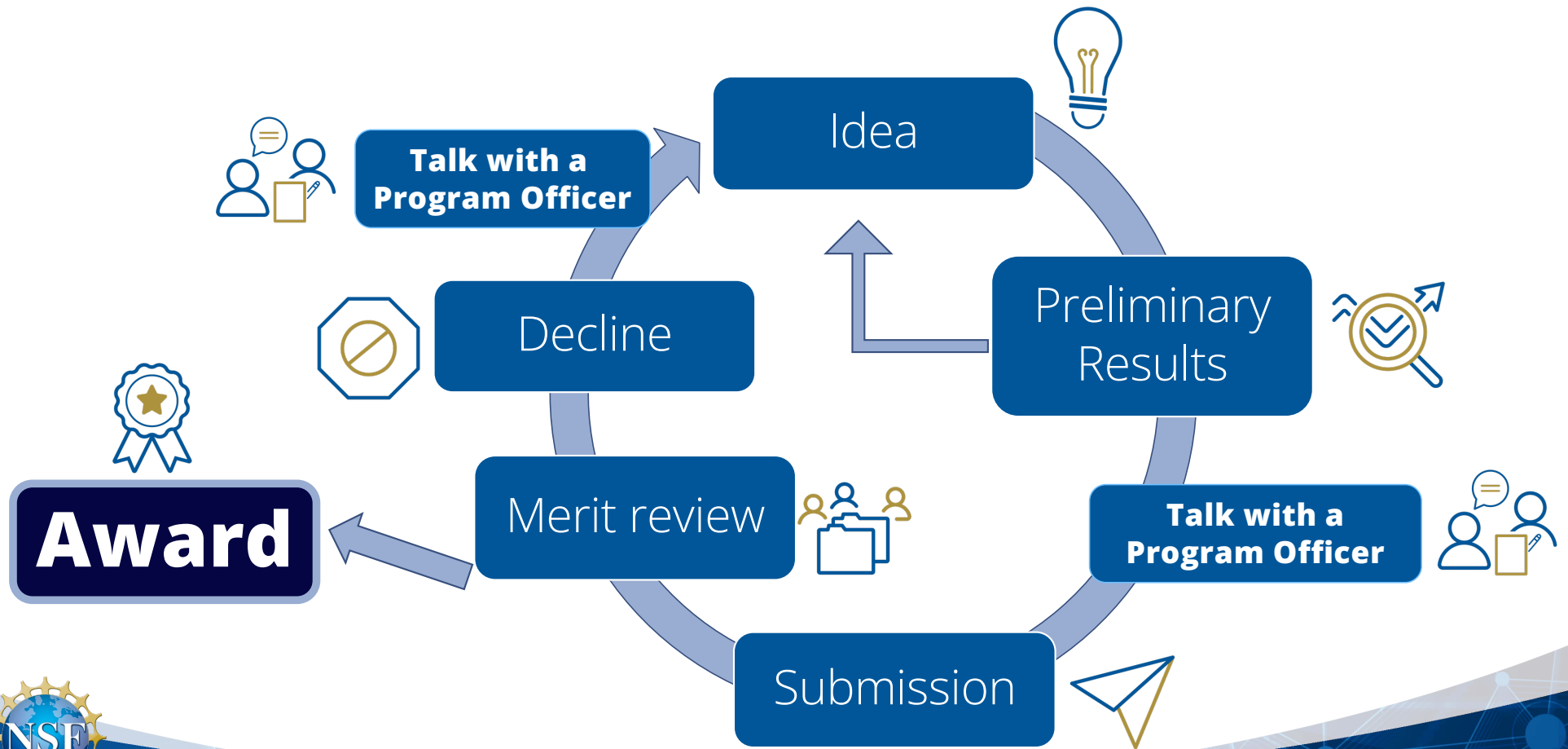
Brief Submission Running Title

Key Terms: up to 6 key words or phrases

Then add your 1-page Concept Outline: brief overview, intellectual merit, and broader impacts



Proposal Submission Process: PI Perspective



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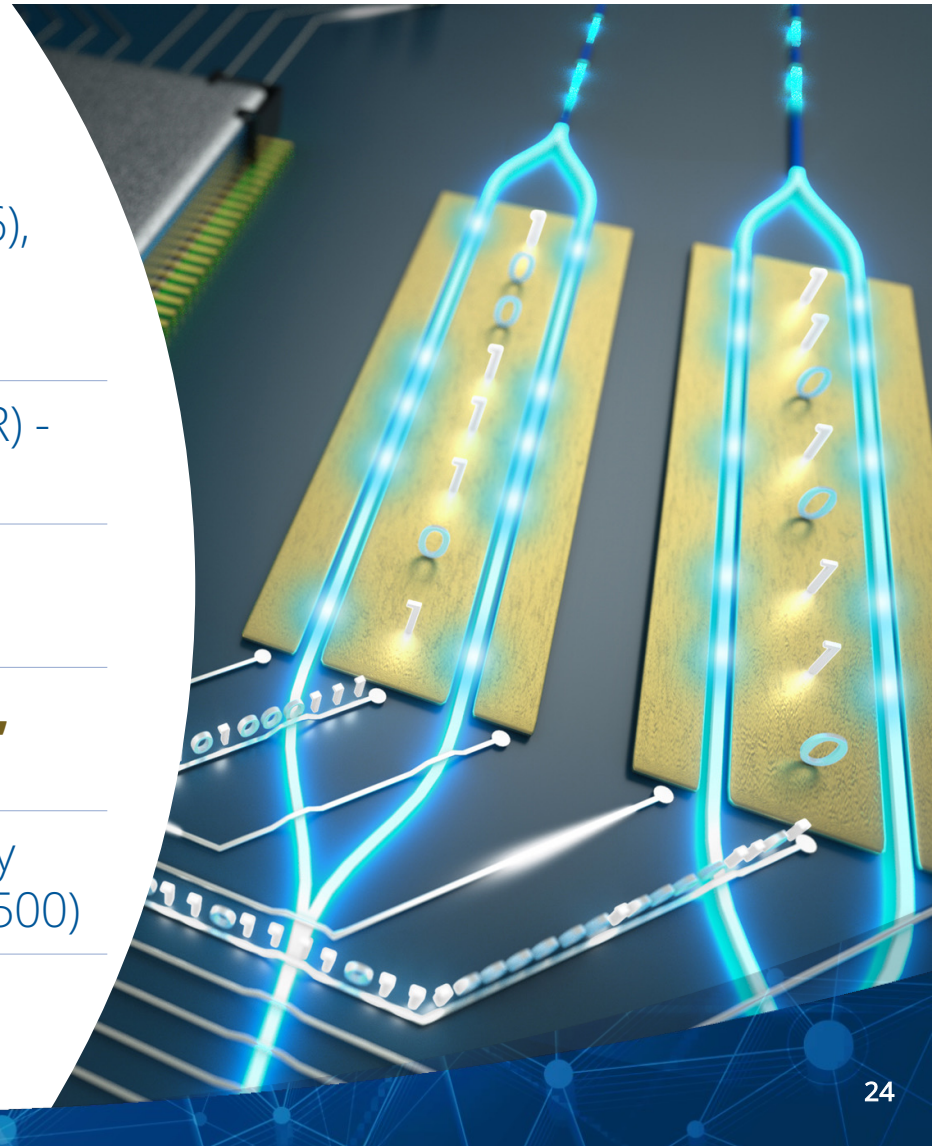
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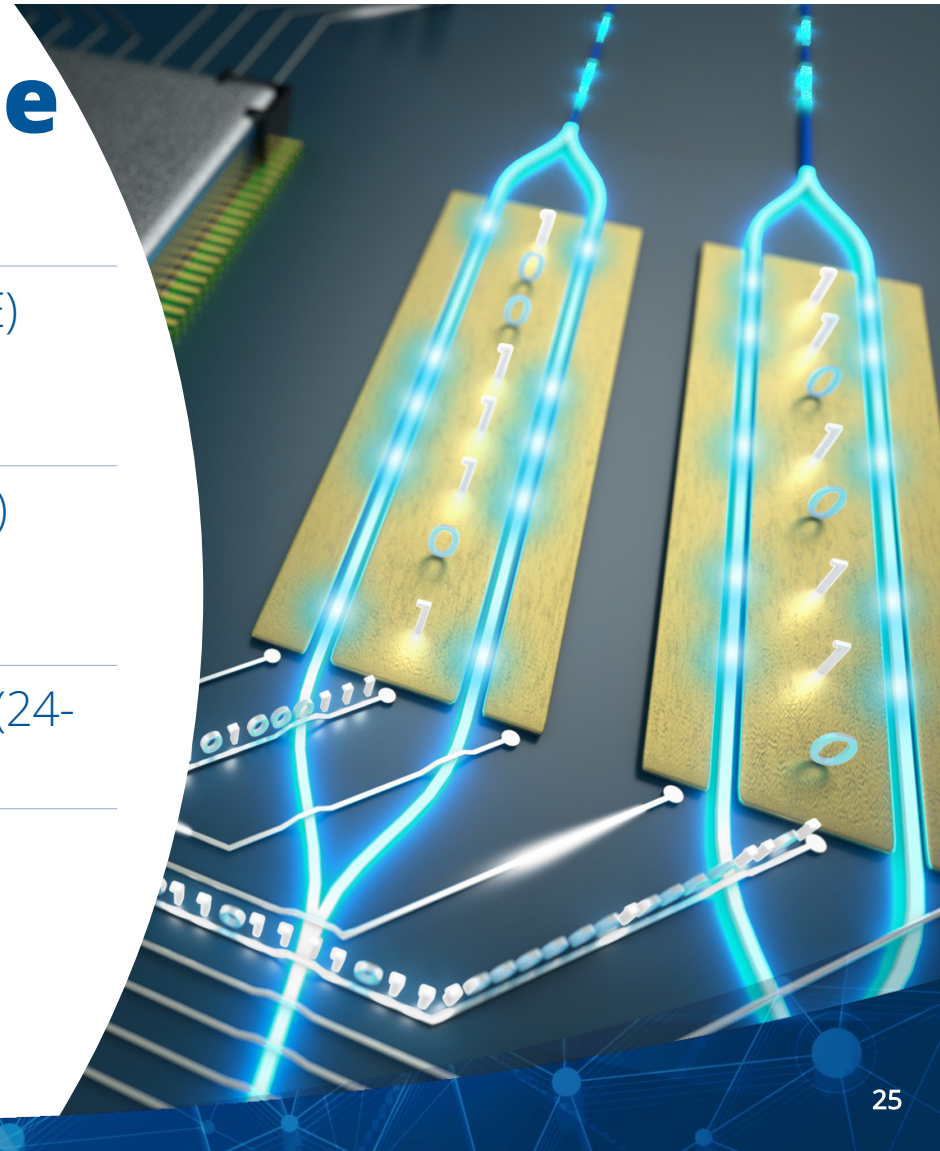


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IOS Cluster and Program Contacts

Cluster/Program	Contact	Email
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



We're listening! Tell us more about you and your research and broader impacts

Investigator Demographic Data Why provide it in your NSF profile?

- This information helps NSF develop future Broadening Participation opportunities.
- Large gaps in self-reported information make it challenging to evaluate program award scope and impede NSF's ability to track impact and progress.
- Individual demographic data in your NSF profile is not available to panelists or reviewers.

Science Happens Here! #NSFstories

- Share your awesome findings and fantastic outreach experiences
<https://beta.nsf.gov/about/science-happens-here>

Home / Science Matters / The importance of bee-ing together



The importance of bee-ing together

As wild bees face new risks, their diversity becomes even more important for flowers and farms

Share



BIO Virtual Office Hours (VOH)

Informational webinars focused on:

- New and ongoing funding opportunities
- Topics of general interest
- Open questions from audience to be answered live

Dates & Times (all Eastern Time Zone)

Division of Biological Infrastructure – 3rd Tuesday from 3-4 p.m.

Division of Environmental Biology – 2nd Monday from 1-2 p.m.

Division of Integrative Organismal Systems – 3rd Thursday from 1-2 p.m.

Division of Molecular and Cellular Biosciences – 2nd Wednesday from 2-3 p.m.



BIO Blogs

News, features, highlights, virtual office hour topics,
and more from OAD and the BIO Divisions

BIO Buzz (OAD): <https://oadblog.nsfbio.com/>

DBInfo (DBI): <https://dbiblog.nsfbio.com/>

DEBrief (DEB): <https://debblog.nsfbio.com/>

IOS in Focus (IOS): <https://iosblog.nsfbio.com/>

MCB Blog (MCB): <https://mcbblog.nsfbio.com/>



BIO News and Updates

Sign-up for emails on new solicitations; events; due date reminders; and BIO's quarterly newsletter, including information on new priorities and solicitations, highlights from the community, and more!

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.

