# EQUIPMENT GRANT PROGRAMS: AN OVERVIEW

## FACULTY SUCCESS SEMINARS

University *of* Idaho

*Please keep your microphone muted until the Q&A session*

RESEARCH AND FACULTY DEVELOPMENT FACULTY SUCCESS SEMINAR SERIES

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Director, Office of Research and Faculty Development

*Please note that this presentation was previously recorded*

# HOUSEKEEPING ITEMS

- This seminar was previously recorded

- If you have questions…

  - Please stay muted until the Q&A slide at the end of the seminar and ask them at that point

  - Type questions into the chat box

  - I will respond to your questions after returning to the office

# OFFICE OF RESEARCH AND FACULTY DEVELOPMENT

- We provide proposal development assistance across the spectrum*



- Meet goals in the UI strategic plan – grow research and creative efforts across <u>all</u> disciplines

- Reach out to discuss ideas with us and request service – uidaho.edu/orfd

*Not including budget preparation

*All services are <u>optional</u> and are granted on a <u>first come, first served</u> basis*

# OBJECTIVES

IN THIS SESSION, WE WILL DISCUSS:

Overview of *some* equipment grant funding opportunities

- NSF Major Research Instrumentation (MRI)

- NIH Shared Instrumentation Programs (S10)

- USDA Equipment Grants Program (EGP)

- Department of Defense University Research Instrumentation Program (DURIP)

- M. J. Murdock Charitable Trust Scientific Research Instrumentation Program

# CONSIDERATIONS FOR EQUIPMENT GRANTS

- Know the total projected costs of the piece of equipment you are requesting

  - Obtain a quote from the vendor (purchasing, delivering, and installing)

  - Know funding program's upper and lower limits for funding

- Does the equipment grant program require cost share? If so, how much, what type(s) are allowable, and where would this come from?

- Are there institutional limits on the number of submissions?

  - Internal deadlines in advance of sponsor deadline; RFD manages

# NSF MRI PROGRAM - SYNOPSIS

- NSF-wide program: Office of Integrative Activities

- Goal is to increase access to multi-user scientific and engineering instrumentation for research and research training

- Supports the acquisition or development of a multi-user research instrument that is, in general, too costly and/or not appropriate for support through other NSF programs

- Expected to enhance research training of students who will become the next generation of instrument users, designers, and builders

# MRI PROGRAM - SYNOPSIS

MRI Program provides support to:

- Acquire critical research instrumentation without which advances in fundamental science and engineering research may not otherwise occur

- Develop next-generation research instruments that open new opportunities to advance the frontiers in science and engineering research

- Recorded RFD Faculty Success Seminar with NSF MRI PO here

# MRI PROGRAM BASICS

- **Awards:**
  - Track 1: Instrument requests between $100,000 to less than $1 million
  - Track 2: Requests between $1M up to and including $4M

- **Duration:** up to 3 years for acquisition proposals; up to 5 years for development proposals

- **Limit on Number of Proposals per PhD-granting Organization:** 3 total
  - 2 proposals allowed for Track 1; one allowed for Track 2
  - Proposals within the two tracks may be either for acquisition or development
  - RFD uses internal review process to determine which proposals will be submitted

- **Submission Window:** January 1 – January 19, annually

# MRI PROGRAM BASICS

- Matching requirement: 30% cost share on total project costs
    - Cash or in-kind
- What the program does not fund:

    - General-purpose equipment normally be found in a laboratory or easily procured
    - Research, education, or outreach activities enabled by the requested instrumentation
    - Requests for multiple independent instruments to outfit a general-purpose laboratory or research environment
    - Instrumentation used primarily for STEM education courses and outreach
    - Research outside of NSF-supported fields of science and engineering

# NIH S10 PROGRAMS - SYNOPSIS

- NIH-wide program: Office of Research Infrastructure Programs

- Goal: support purchases of to state-of-the-art commercially available instruments to enhance research of NIH-funded investigators

  - Instruments are typically too expensive to be obtained by an individual investigator with a research project grant

- Every instrument awarded us used on a shared basis

  - Three or more PIs with active NIH research awards

- Three S10 Funding Programs

- FAQs

# S10 PROGRAM BASICS

**S10 #1:** Basic Instrumentation Grant Program (BIG; PAR-21-125)

**Overview:**
- Targets institutions that have not received $250K or more in S10 shared instrumentation award funding in any of the last 3 Federal fiscal years (FYs 2018-2020)

**Awards:**
- Between $25,000 to $250,000
- Examples: basic cell sorters, confocal microscopes, ultramicrotomes, gel imagers, or computer systems

**Duration:** one year

**Limit on Number of Proposals Submitted Per Institution:** 1

**Cost Share Requirement:** None

**Deadline:** June 1, 2021

# [S10 PROGRAM](#) BASICS

**S10 #1:** Basic Instrumentation Grant Program (BIG; [PAR-21-125](#))

**Applicants are advised to discuss ideas with BIG Scientific/Research Contact**

- Alena Horska, PhD, PhD (ORIP); 301-435-0772; [SIG@mail.nih.gov](mailto:SIG@mail.nih.gov)

- Christina Liu, PhD PE (NIGMS); 301-451-3781; [christina.liu@nih.gov](mailto:christina.liu@nih.gov)

# S10 PROGRAM BASICS

S10 #2: Shared Instrumentation Grant Program (SIG; PAR-21-127)

## Overview:

- Purchase or upgrade a single item of high-priced, specialized, commercially available instruments or integrated instrumentation system

## Awards:

- Between $50,000 to $600,000
- Examples: X-ray diffractometers, mass spectrometers, NMR, DNA and protein sequencers, biosensors, electron and light microscopes, cell sorters, biomedical imagers

## Duration: one year

## Limit on Number of Proposals Submitted Per Institution: No limit

## Cost Share Requirement: None

## Deadline: June 1, 2021

# S10 PROGRAM BASICS

S10 #2: Shared Instrumentation Grant Program (SIG; PAR-21-127)

Applicants are advised to discuss ideas with SIG Scientific/Research Contact

- Alena Horska, PhD, PhD (ORIP); 301-435-0772; SIG@mail.nih.gov

- Christina Liu, PhD PE (NIGMS); 301-451-3781; christina.liu@nih.gov

# S10 PROGRAM BASICS

S10 #3: High-End Instrumentation Grant Program (HEI; PAR-21-126)

## Overview:

- Purchase or upgrade a single item of high-end, specialized, commercially available instruments or integrated instrumentation system

## Awards:

- Between $600,000 to $2,000,000
- Examples: biomedical imagers, high-throughput robotic screening systems, X-ray diffractometers, mass spectrometers, NMR, DNA and protein sequencers, biosensors, electron and light microscopes, and cell sorters

## Duration: one year

## Limit on Number of Proposals Submitted Per Institution: No limit

## Cost Share Requirement: None

## Deadline: June 1, 2021

# S10 PROGRAM BASICS

S10 #3: High-End Instrumentation Grant Program (HEI; PAR-21-126)

Applicants are advised to discuss ideas with HEI Scientific/Research Contact

- Guanghu (Jeff) Wang, PhD (ORIP); 301-435-0772; HEI@mail.nih.gov

- Christina Liu, PhD PE (NIGMS); 301-451-3781; christina.liu@nih.gov

# S10 PROGRAM BASICS

## What the Program Will NOT Support:

- An instrument with a base cost of less than award floor

- Multiple instruments bundled together

- Purely instructional equipment

- Instruments used for clinical (billable) care

- Instruments that are not commercially available and do not have a manufacturer warranty

- Institutional administrative management systems, clinical management systems

- Software, unless it is integrated in the operation of the instrument and/or necessary for generation of high-quality experimental data from the instrument

- Multiple stand-alone workstations for data processing, software licenses, and duplicate software items

# S10 PROGRAM BASICS

## What the Program Will NOT Support (cont'd):

- General purpose equipment (e.g., standard machine shop equipment), instruments to furnish a research facility (e.g., autoclaves, hoods, equipment to upgrade animal facilities), equipment for routine sustaining infrastructure (e.g., standard computer networks or data storage systems)

- Disposable devices, office furniture, and supplies

- Alteration or renovation of space to house the instruments

# USDA NIFA EGP - SYNOPSIS

- Goal: increase access to shared-use special purpose equipment/instruments for fundamental and applied research for use in the food and agricultural science programs at institutions of higher education

  - Strengthen quality and expand the scope of fundamental and applied research at IHEs

- FAQs

# EGP PROGRAM BASICS

**Overview:**

- Increase access to shared-use special purpose equipment for use in the food and agricultural sciences programs at IHEs
- Aligned with USDA Strategic Goals 1-7 and USDA Science Blueprint Themes 1-4

**Awards:**

- Between $25,000 to $500,000

**Duration:** up to three years

**Limit on Number of Proposals Submitted Per Institution:** 2

**Cost Share Requirement:** None

**Deadline:** March 16, 2021

**Program Contact:** Carlos Ortiz, PhD

# EGP PROGRAM BASICS

## What the Program Will NOT Support:

- Acquisition of suites of equipment to outfit research laboratories/facilities or to conduct independent experiments simultaneously

- Common, general purpose ancillary equipment that would normally be found in a laboratory and/or is relatively easily procured by the organization or other NIFA grant programs

- Research projects, including research that uses the equipment acquired with support from the program

- Education or extension projects directly

- Installation, training, operation, consumable supplies, insurance, or maintenance of facilities, equipment, or research laboratories, or renovation of facilities that house the acquired equipment

# DURIP - SYNOPSIS

- Administered through the Air Force Office of Scientific Research (AFOSR), Army Research Office (ARO), and Office of Naval Research (ONR)

    - *Choose agency based on a match with their research interests*

- Acquisition of major equipment to augment current or develop new research capabilities in support of DoD-relevant research

# DURIP BASICS

**Overview:**

- Improve capabilities of U.S. IHE to conduct research and to educate scientists in areas important to national defense, by providing funds for the acquisition of research equipment or instrumentation
- Aligned with specific agency missions

**Awards:**

- Between $50,000 to $1,500,000

**Duration:** one year

**Limit on Number of Proposals Submitted Per Institution:** None

**Cost Share Requirement:** None

**Deadline:** May 14, 2021

# DURIP BASICS

- **Strongly Encourage** Contact with Program Officer(s)
  - Deadline for program contact: April 23
  - ARO Broad Agency Announcement (BAA) (W911NF-17-S-0002): research interest contacts
    - Expires March 31, 2022
  - ONR Technology Areas: Review "Departments" on this page
  - AFOSR BAA: Review program areas here
    - No expiration date noted; opened April 30, 2020
- Applicants can submit proposals to more than one supporting agency

# DURIP BASICS

- Review Criteria (of equal importance)

  - Impact of the proposed equipment on research DoD funds, plans to fund and/or the likelihood your proposed equipment will enhance current research capabilities or establish new research capabilities relevant to DoD

  - Importance and priority to DoD missions of research the proposed equipment will support

  - Potential of the proposed equipment to enhance institution's ability to educate future scientists and engineers through research conducted with the proposed equipment in disciplines important to DoD

# DURIP BASICS

## What the Program Will NOT Support:

- Purely instructional equipment

- General-purpose computing facilities

- Construction or modification of buildings

- Continued operation and maintenance, including extended warranties

- Direct salaries of faculty, postdoctoral associates, or students

# MURDOCK SCIENTIFIC RESEARCH INSTRUMENTATION PROGRAM - SYNOPSIS

- M. J. Murdock Trust supports research universities in the Pacific Northwest

- Goal: to support scientific research in the form of major scientific instrumentation to be used by multiple users

  - Natural sciences, engineering, or medicine

# MURDOCK SCIENTIFIC RESEARCH INSTRUMENTATION PROGRAM BASICS

## Overview:
- Support scientific research in the form of major scientific instrumentation to be used by multiple users

## Awards:
- Between $50,000 to $250,000 ($250K more typical)
- Can also request up to 12% for seed funds to recruit new users

## Duration: three years

## Limit on Number of Proposals Submitted Per Institution: 3 every 2 years
- Institutional priority

## Cost Share Requirement: At least 50% of the purchase price
- Cash from University, another grant, or 3rd party

# MURDOCK SCIENTIFIC RESEARCH INSTRUMENTATION PROGRAM BASICS

## Application Process:

- Talk with Carly Cummings (ccummings@uidaho.edu) to discuss proposed idea

    - Carly will talk with Dr. Moses Lee at the Trust

- If Murdock is interested, we will submit a Letter of Intent (no specific deadlines)

- A full proposal may be requested

- A site visit from Dr. Moses Lee to meet with the PI team, to see the proposed space

- Murdock Trust Advisory Board reviews application and outcome from the site visit

    - They meet in Feb., May, Aug., and Nov.

    - 6-9 months of review time

# SUMMARY

| Program | Price range | Deadline | Cost share? | Limited**? |
|---|---|---|---|---|
| NSF MRI | $100K - $4M | Jan. 19* | Yes | Yes |
| NIH S10 BIG | $25K - $250K | June 1 | No | Yes |
| NIH S10 SIG | $50K - $600K | June 1 | No | No |
| NIH S10 HEI | $600K - $2M | June 1 | No | No |
| USDA EGP | $25K - $500K | March 16* | No | Yes |
| DURIP | $50K - $1.5M | May 14 | No | No |
| Murdock Trust | $50K - $250K | N/A | Yes | Yes |

*2021 deadline - refer to program page for updates

** RFD team manages internal competitions in advance of sponsor deadlines

# INTERESTED? NEXT STEPS

- Explore websites, BAAs/FOAs, talk with others

- Contact Program Officer(s)

- RFD can assist you!

  - Email: ored-rfdteam@uidaho.edu

  - Url: https://www.uidaho.edu/research/about/orfd

**REQUEST RFD SERVICES**

*Thank you for attending!*

*See you next time!*

**FACULTY SUCCESS SEMINARS**

## FALL 2020

**Sept. 9**   **NSF Research Traineeship (NRT) Program:**
Tips for Writing a Competitive Proposal

**Sept. 23**   **NSF CAREER All Year:** Getting Ready to Apply

**Sept. 30**   **NSF EPSCoR RII Track-2:** Tips for
Writing a Competitive Proposal

**Oct. 7**   **Find Funding Opportunities:** Introduction to Pivot

**Oct. 21**   **NSF CAREER All Year:** Getting
Started on Your Proposal

**Nov. 4**   **UPDATE:** Mountain West Clinical and
Translational Research-Infrastructure Network
(MW CTR-IN) Funding Opportunities

**Nov. 18**   **Myth-busting Department of Defense
Funding Opportunities**

**Dec. 2**   **M. J. Murdock Trust's Commercialization Initiation
Program:** Tips for Writing a Competitive Proposal

## SPRING 2021

**Jan. 13**   **Find Funding Opportunities:** Introduction to Pivot

**Jan. 27**   **Funding Research and Scholarly
Work in the Humanities**

**Feb. 3**   **Idaho is an EPSCoR State - What This
Means for Supporting Your Research**

**Feb. 17**   **How to Develop and Deliver an Effective Pitch**

**Mar. 3**   **Assessing Your Grant Readiness**

**Mar. 24**   **Early Career Faculty Research - Grant Programs**

**Apr. 7**   **USDA NIFA AFRI:** Tips for Getting
Started with Your Next Proposal

**Apr. 14**   **Developing Data Management Plans
- Best Practices and Resources**

**Apr. 28**   **Equipment Grant Programs:**
An Overview

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**WE GUIDE THE DEVELOPMENT
OF COMPETITIVE EXTERNAL
GRANT PROPOSALS**

**Office of Research and
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**Email:** ored-rfdteam@uidaho.edu
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# Q&A