

University of Idaho

Zoom participants: Please keep your microphone muted until the Q&A session

NH FUNDING MECHANISMS OVERVIEW (R03, **R01, R21**)

RESEARCH AND FACULTY DEVELOPMENT FACULTY SUCCESS SEMINAR SERIES

- Carly Cummings, PhD, CPRA **Director, Research and Faculty Development**
- Special Guest: Deborah Stenkamp, PhD Professor, Biological Sciences
- Please note that this session is being recorded



OFFICE OF RESEARCH AND FACULTY DEVELOPMENT (RFD)



Meet goals in the UI strategic plan – grow research and creative

efforts across <u>all</u> disciplines

Reach out to request service – uidaho.edu/orfd

*Not including budget preparation

All services are optional and are granted on a first come, first served basis





OFFICE OF RESEARCH AND FACULTY DEVELOPMENT (RFD)

Our People

Carly Cummings Director

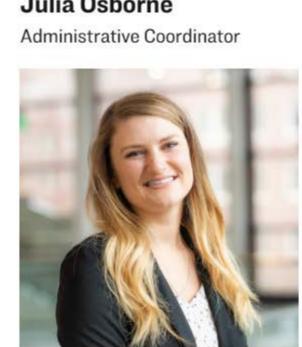


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Morrill Hall Room 103 – come say hello!



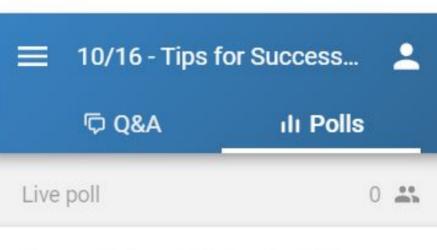
HELP US IMPROVE OUR SEMINARS

After the Q&A session: brief 3 question sli.do poll

- On a scale from 1-5, how helpful was this seminar?
- What did you like most about this seminar?
- How can we improve this seminar?

<u>www.slido.com</u> or use the sli.do app (Use code #FSS)





On a scale from 1-5, how helpful was this seminar? (5 being most helpful)

Give your rating:



What did you like about this seminar?

Type your answer ...

How could we improve this seminar?

Type your answer ...





AUDIENCE POLL

I Proposal submission to NIH?

I R03? R21? R01?







NATIONAL INSTITUTES OF HEALTH

- **I** Federal funding agency
- Part of the U.S. Department of Health and Human Services (HHS)
- Began in 1887 as a one-room laboratory in Marine Hospital Services
- Director: Francis S. Collins, MD, PhD (since 2009)
- INIH's mission is to seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.





ORGANIZATION

INIT NIT divided into 27 Institutes/Centers (I/C) \rightarrow Study Sections \rightarrow <u>Research funding mechanisms</u> (R)



National Institutes of Health Turning Discovery Into Health

Health Information

Grants & Funding

Home » Institutes at NIH

INSTITUTES, CENTERS, AND OFFICES

NIH Regional Grants Conference

- Spring and Fall

Institutes at NIH

List of NIH Institutes, Centers, and Offices

Directors of NIH Institutes and Centers

NIH Institute and Center Contact Information

NIH Office of the Director

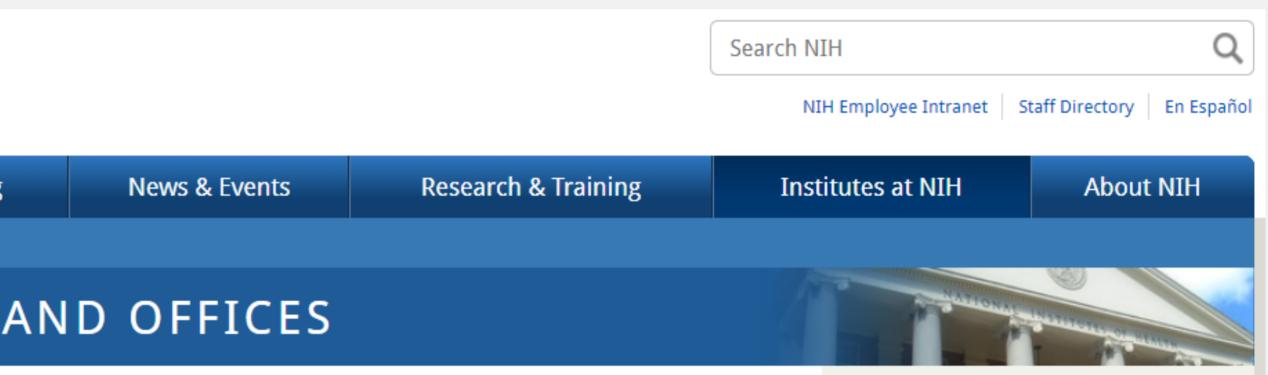
Offices

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NIH Offices

The Office of the Director is the central office at NIH for its 27 Institutes and Centers. The OD is responsible for setting policy for NIH and for planning, managing, and coordinating the programs and activities of all the NIH components. OD program offices include the Office of AIDS Research and the Office of Research on Women's Health, among others.





List of NIH Institutes, Centers, and

NIH Office of the Director (OD)



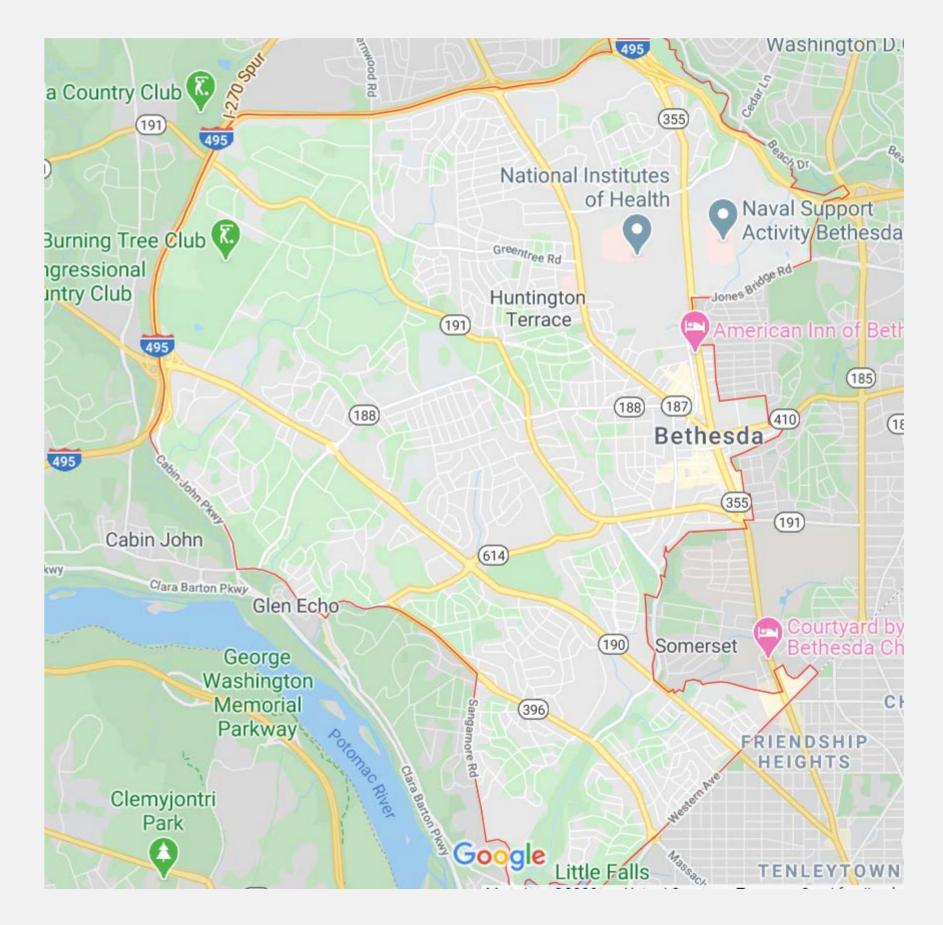




NATIONAL INSTITUTES OF HEALTH

- Located in Bethesda, Maryland
- Campus >300 acres
- 1 >75 buildings (photos)
- Intramural research program
- 80% research activities outside NIH









R FUNDING MECHANISMS

- More about this naming <u>here</u>
- Not all Institutes/Centers (I/C) participate in all PA/FOAs
- **RO3: NIH Small Grant Program**
- **Research Grant Award I** RO1: NIH Research Project Grant Program
- **R15: UI not eligible to apply**



I Funding Opportunity Announcement (FOA)/ Parent Announcements (PA)





RO3

- research projects, development of new research technology, etc.
 - 2 years of funding
- **Not renewable**
- Utilized by >50% of the NIH ICs
- See parent FOA: <u>PA-19-052</u>
 - 19: Year of PA release; 052: serial number



Provides limited funding for a short period of time to support a variety of types of projects, including: pilot or feasibility studies, collection of preliminary data, secondary analysis of existing data, small, self-contained

Direct costs generally up to \$50,000 per year (NIH caps do not include F&A)





RO3

Department of Health and Human Services Part 1. Overview Information

Participating Organization(s)

Components of Participating Organizations

Funding Opportunity Title

Activity Code

Announcement Type

National Institutes of Health (NIH)

- National Human Genome Research Institute (NHGRI)
- National Institute on Aging (NIA)
- National Institute on Alcohol Abuse and Alcoholism (NIAAA)
- National Institute of Allergy and Infectious Diseases (NIAID)
- National Institute of Biomedical Imaging and Bioengineering (NIBIB)
- National Institute on Drug Abuse (NIDA)
- National Institute of Environmental Health Sciences (NIEHS)
- National Institute of Mental Health (NIMH)
- National Institute of Neurological Disorders and Stroke (NINDS)

Note: Not all NIH Institutes and Centers (ICs) participate in Parent Announcements. Applicants should carefully note which ICs participate in this announcement and view their respective areas of research interest at the R03 IC-Specific Scientific Interests and Contact website.

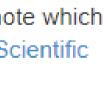
ICs that do not participate in this announcement will not consider applications for funding.

NIH Small Research Grant Program (Parent R03 Clinical Trial Not Allowed)

R03 Small Grant Program

Reissue of PA-18-488









R21

- Encourages new, exploratory and developmental research projects by providing support for the early stages of project development. Sometimes used for pilot and feasibility studies.
- **I** Typically up to 2 years of funding
- **Direct costs generally do not exceed \$275,000**
- I No preliminary data is generally required (more on this later)
- **I** Most ICs utilize
- See parent FOA: PA-19-053







Department of Health and Human Services Part 1. Overview Information

Participating Organization(s)

National Institutes of Health (NIH)

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Funding Opportunity Title	NIH E
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Activity Code	R21 Explor



all NIH Institutes and Centers (ICs) participate in Parent Announcements. Applicants should carefully note which ipate in this announcement and view their respective areas of research interest at the R21 IC-Specific Scientific and Contact website. ICs that do not participate in this announcement will not consider applications for funding.

Exploratory/Developmental Research Grant Program (Parent) Clinical Trial Not Allowed)

pratory/Developmental Research Grant









R01

- INIH's most commonly used grant program
 I Used to support a discrete, specified, circumscribed research project
- No specific dollar limit unless specified in FOA
 - Advance permission required for \$500K or more (direct costs) in any year (typical practice; not just for R01)
- Generally awarded for 3-5 years
- Utilized by all ICs
- See parent FOA: PA-19-056







NIH STANDARD DEADLINES

- Three cycles per calendar year
- Dates vary for activity codes and if the submission is a new, renewal, or resubmission (Table)
 - R01 new: Feb. 5, June 5, Oct. 5
 - R01 resubmission, renewal, revision: Mar. 5, July 5, Nov. 5
 - RO3 and R21 new: Feb. 16, June 16, Oct. 16
 - RO3 and R21 resubmission, revision (not renewable): Mar. 16, July 16, Nov. 16







CONSIDERATIONS FOR R21 AND R03 I R21 and R03 are small, but not easy to get

- - Competitive peer review
 - No advantage for early or new investigators during peer review unlike **R01 peer review** (payline, expectations)
 - New: not substantial independent NIH funding (RO3 and R21 OK)
 - Early-stage: new and within 10 years of terminal research degree
- I Not necessarily a starting place for future R01 submission
 - established investigators who want to complete a limited project
 - Not designed to help establish a research career







CONSIDERATIONS FOR R21 AND R03

- Shorter Research Strategy (6-page v. 12-page for R01) = tightly focused research plan
- Preliminary data are not required for R21...
 - However, they correlate with funding success = reviewer expectations
- Is a 2-year award sufficient to complete a project to generate necessary preliminary data for R01?
 - Consider ~9 months to receive review outcome; additional time for award
- If you have sufficient preliminary data, submitting a competitive RO1 may be the better option











COMPARING R21 AND R01

Characteristic	Parent R21	Parent R01
Purpose	To introduce novel scientific ideas, model systems, tools, agents, targets, and technologies that have the potential to substantially advance biomedical research.	To support a discrete, specified, circumscribed projectin an area representing the investigator's specific interest and competencies, based on NIH's mission.
Duration	Up to two years.	Up to five years.
Budget	Up to \$275,000 in direct costs over two years. At most \$200,000 for any year.	Unlimited. (But note that most new investigators submit a modular grant of \$250,000 or less.)
Renewal	No.	Yes, as a renewal application.
Preliminary data	Not required, but <u>read Know the Importance of</u> Preliminary Data for R21.	Required.
Participation	For a list of participating institutes and centers (ICs), see the parent R21 announcements on our <u>Funding</u> Opportunity Announcements page.	Most NIH ICs. For a list of participating ICs, see the parent R01 announcements on our <u>Funding</u> <u>Opportunity Announcements</u> page.
New Investigator benefits	None.	Higher payline than non-new PIs, lower reviewer expectations, and other benefits.

Parent	R01
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PROGRAM SPECIFIC R21 - EXAMPLE

- Trailblazer Award for New and Early Stage Investigators (R21)
 - expected, or encouraged.
 - However, if available, minimal preliminary data are allowed. All the FOA instructions and will not go forward to review.



INATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING (NIBIB)

A distinct feature for this FOA is that <u>no preliminary data are required</u>,

preliminary data should be clearly marked and limited to one-half page, which may include one figure. Applications including data more than onehalf page or more than one figure will be considered noncompliant with







ASK BEFORE ASSUMING

- Talk with funded colleagues/mentors
- Contact an NIH Program Official before beginning to write
 - Identify the appropriate I/C, study section, and funding mechanism
 - Use MatchMaker tool within NIH REPORTER
 - Research and Faculty Development team can help



REQUEST RFD SERVICES





NIH AWARD DATA: MATCHMAKER https://projectreporter.nih.gov/reporter_matchmaker.cfm

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These matches are based on the terms and concepts	used in the submitted text. Up to 15,000 ch	aracters are permitted.			VIEW TUTORIAL		
These matches are based on the terms and concepts Matchmaker summarizes the projects by the program Enter your Text:							

Enter ~6 pages of single-spaced text



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Program Official		IC	Contact Information	Projects
REENWELL, THOMAS		NEI	Click to view PO email address	<u>98</u>
EUHOLD, LISA		NEI	Click to view PO email address	<u>83</u>
HEN, GRACE L		NEI	Click to view PO email address	<u>32</u>
GARWAL, NEERAJ		NEI	Click to view PO email address	<u>30</u>
OODBHOY, TANYA		NIGMS	Click to view PO email address	<u>16</u>
VIGGS, CHERI		NEI	Click to view PO email address	<u>8</u>
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IUKHOPADHYAY, MAHUA		NICHD	Click to view PO email address	<u>6</u>
SILVA, CORINNE M		NIDDK	Click to view PO email address	<u>6</u>
LANDERS, MARTHA C		NEI	Click to view PO email address	<u>6</u>
WUJEK, JEROME R		NEI	Click to view PO email address	<u>5</u>





TOOLS/RESOURCES

I To see the types of projects that have been funded, go to NIH **<u>Reporter</u>** and select the specific Activity Code

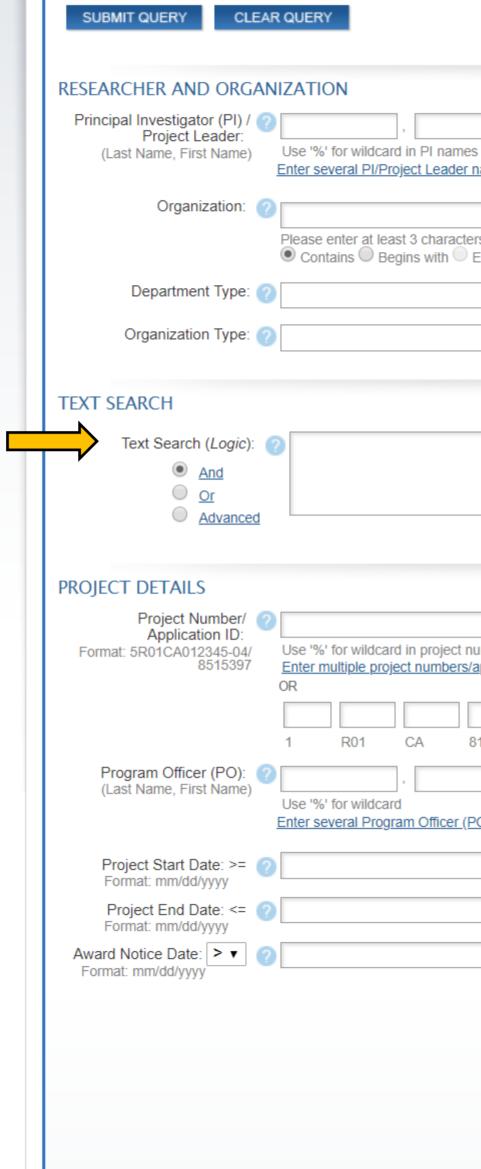
MyRePORTER Video <u>Tutorial</u> (6:35)







NIH REPORTER



Fiscal Year (FY): Active Projects SELECT City: 🕐 Use '%' for wildcard Enter several PI/Project Leader names OR PI Profile IDs State: 🕐 SELECT LOOKU Country: 🕐 SELECT Please enter at least 3 characters to use Lookup. Contains Begins with Exact Congressional District: (?) SELECT SELECT DUNS Number: 🕐 SELECT Limit Project search to Limit Publication search to Search in 🛛 🕐 Projects Project Title Start Year 2019 🔻 Publications Project Terms End Year 2020 V News Project Abstracts Characters left: 2500 Agency/Institute/Center: 🕐 SELECT 🗹 Admin 🔲 Funding Use '%' for wildcard in project number, e.g. %R21% Enter multiple project numbers/application IDs NIH Spending Category: 🕐 SELECT Funding Mechanism: 🕐 SELECT CA 811099 01 A1S1 Award Type: 🕐 SELECT Activity Code: 🕐 CLOSE Enter several Program Officer (PO) names Check/Uncheck All E- 🗹 Research Grants E Research Project Grants P01 Program Projects E R01 Equivalents DP2 🗹 R01 🔽 R23 🔽 R29 - 🔽 R37 🗖 RF1 - 🗹 R03 R15 AREA - 🔽 R21 SELECT RESET CLEAR

Study Section: 🥥

Standing CSR study sections only

SELECT

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TOOLS/RESOURCES

- Source for this presentation: Comparing Popular Research Project Grants: R01, R03, or R21 <u>NIH NIAID Article</u>
- Early Stage Investigator (ESI) Policies
 - Including ESI extension request information
- I Next week's FSS: Developing Your First R01 Proposal





LET'S ASK OUR EXPERT **DR. DEBORAH STENKAMP**

funding mechanism is appropriate? **Review panel take-aways** New/ESI proposal review Advice to early career Pls

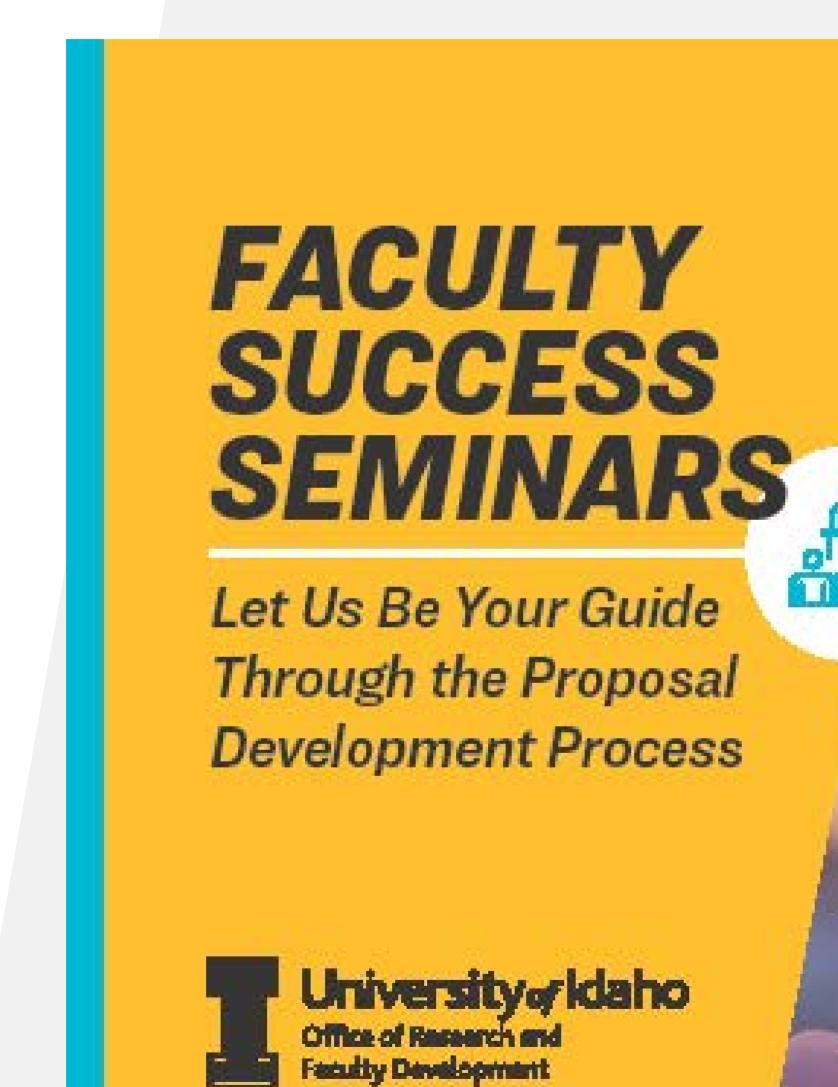
Other considerations



Decision-making process for a proposed NIH project – what



<u>https://www.webpages.uidaho.edu/webteam/research/rfd-faculty-success-</u> <u>seminars-postcard.pdf</u>







JOIN US IN IRIC 305 12:30 P.M. - 1:30 P.M. PT

Can't join us in person? Then join us live via Zoom: uidaho.zoom.us/j/798224314. Each seminar will be recorded and be available on our website.

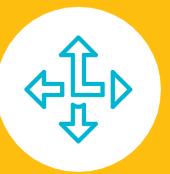


FALL 2019

- Sept. 4 HERC IGEM Info Session
- **Sept.11** Find Funding Opportunities: Introto Pivot

Sept.25 NSFCAREER All Year: An Introduction

- **Oct.2** W.M. Keck Foundation Info Session
- **Oct. 16** Tips for Successful Proposal Writing
- **Oct. 23** NSF CAREER All Year: Getting Started
- **Oct. 30** Exploring Humanities Funding Opportunities
- **Nov.13** MW CTR-IN Funding Opportunities
- **Nov. 20** NSF CAREER All Year: Integrating the Research and Education Plans
- **Dec.11** M.J. Murdock Trust Commercialization Initiation ProgramInfo Session



WE GUIDE THE DEVELOPMENT OF COMPETITIVE EXTERNAL GRANT PROPOSALS



SPRING 2020

<u>Jan. 22</u>	Developing Successful Project Management Plansfor Large Proposals (Rescheduled Apr 15)
<u>Feb. 5</u>	NSF: Broader Impacts Really Do Matter!
<u>Feb. 12</u>	NIH: Funding Mechanisms Overview (R03, R21, R01)
Feb.19	NIH: Developing Your First RO1 Proposal
<u> Mar. 4</u>	NIH: Understanding Proposal Review
<u> Mar. 11</u>	NSF: Understanding Proposal Review
<u>Mar. 25</u>	Fulbright Faculty Scholar Program Info Session
<u> Apr. 1</u>	Find Funding Opportunities: Intro to Pivot
<u> Apr. 8</u>	NSF MRI: Creating Competitive Proposals
<u>Apr. 15</u>	Developing Successful Project Management Plansfor Large Proposals

Office of Research and Faculty Development Phone: (208) 885-1144 Email: ored-rfdteam@uidaho.edu Website: uidaho.edu/orfd



THANK YOU FOR COMING!

BEFORE YOU GO...

Please take a brief 3-question sli.do poll

www.slido.com or use the sli.do app

Use code #FSS

QUESTIONS?

