



University of Idaho

Please keep your microphone muted until the Q&A session

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Please note that this session is being recorded

NSF RESEARCH TRAINEESHIP (NRT) **PROGRAM: TIPS FOR COMPETITIVE PROPOSALS**

RESEARCH AND FACULTY DEVELOPMENT FACULTY SUCCESS SEMINAR SERIES







OFFICE OF RESEARCH AND FACULTY DEVELOPMENT

We provide proposal development assistance across the spectrum *



*Not including budget preparation

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





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



OBJECTIVES IN THIS SESSION, WE WILL DISCUSS:

- **Program basics**
- Limited submission process & timeline
- NRT Goals, Focus, Budget, Themes, Criteria
- General tips for competitive proposals
 - Q&A Session Dr. Vinod Lohani, Program Director in NSI Directorate for Education & Human Resources (from 1 -1:30 p.m.)





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NRT PROGRAM - BASICS Funding & Duration: \$3,000,000 for projects up to 5 years ļ

- **Annual Deadlines:**
 - Letter of Intent (required) November 25 December 6 Full Proposal Deadline – February 6
- Limit on Number of Proposals per Organization: 2
 - subawardee on any proposal)
 - submitted

An eligible organization may participate in two proposals per competition (includes serving as a lead organization, non-lead organization, or

RFD uses internal review process to determine which proposals will be



NRT - LIMITED SUBMISSION PROCESS USING INFOREADY REVIEW:

Notice of Intent (NOI) Deadline



Concept Paper Deadline

Aug. 17, 2020

Sept. 14, 2020

via Ul's InfoReady Review System

*All deadlines are at 5:00 pm Pacific Time.







WHY NRT?

New approaches to STEM graduate education are needed to:

Keep up with accelerated pace of STEM discoveries and innovations

Equip emerging scientists to address grand challenges that require interdisciplinary and convergent approaches





NRT PROGRAM - GOALS

- Catalyze and advance cutting-edge interdisciplinary or convergent* research in high priority areas.
- I Prepare diverse set of graduate students for research and research-related careers within and outside of academia
- **I** Develop new approaches and knowledge that will promote transformative improvements in graduate school

*research that integrates knowledge, methods, and expertise from different disciplines into novel frameworks to catalyze scientific discovery and innovation







NRT PROPOSAL - FOCUS

NRT Proposals should focus on:

- **Technical and professional training of STEM graduate** students that emphasizes:
 - Research training
 - Technical and professional skills development
 - Mentoring and vocational counseling
- Techniques, languages, and cultures of interdisciplinary or convergent research fields.







WHO ARE TRAINEES?

required NRT elements (e.g., courses, workshops, projects, training activities).

dissertation.



permanent resident status.



STEM graduate students accepted into an institution's NRT program, irrespective of funding status, who complete

Must be master's and/or doctoral STEM students in a research-based degree program that requires a thesis or

Must be full-time students and hold U.S. citizenship or





BUDGET

- Up to \$3,000,000 for projects up to 5 years
- Trainee Support (e.g., stipend, tuition, required fees)
 - Research-based master's and/or doctoral students
 - Students whose research aligns with project's research theme
 - Must be full-time students and hold U.S. citizenship or permanent resident status
 - Should receive 12 continuous mos. of stipend support over an annual period
- Additional costs (travel, subsistence, other) for trainees (NRTfunded, non-NRT-funded) to participate in the program
- Should include budget for NRT Program Coordinator, evaluator, and travel to annual NRT meetings and orientation





NRT RESEARCH THEMES (19-522) Interdisciplinary research themes of national priority

Special emphasis on research areas listed in <u>NSF's 10 Big Ideas</u>.



*Stay tuned for new program solicitation

NSF'S **10 BIG IDEAS**

Since 2017, NSF has been building a foundation for the Big Ideas through pioneering research and pilot activities. In 2019, NSF will invest \$30 million in each Big Idea and continue to identify and support emerging opportunities for U.S. leadership in Big Ideas that serve the Nation's future.





NRT PROJECT DESCRIPTION (20 pgs. max) Must include sections 4(A) - (J):

- A. List of Core Participants
- B. Theme, Vision, and Goals
- C. Education and Training
- **D.Major Research Efforts**
- E. Broader Impacts
- F. Organization and Management
- G. Recruitment, Mentoring, and Retention
- H. Performance Assessment/Project Evaluation
- I. Recent Student Training Experiences
- J. Results from Prior NSF Support



REVIEW CRITERIA

- Intellectual Merit *Must address even though separate section
- **Broader Impacts**
- **I** Additional Review Criteria
 - Integration of Science and Education
 - Interdisciplinarity
 - Integrating Diversity into NSF Program, Projects, and Activities
 - Evaluation
 - Sustainability
 - Model Dissemination



labeled "Intellectual Merit" is <u>not required for proposals to this solicitation.</u>



TIPS FOR COMPETITIVE NRT PROPOSALS

- **Use new NRT Program Solicitation**
- **Familiarize yourself with <u>NSF's 10 Big Ideas</u>**

- **Contact Program Directors**
- RFD can assist you!
 - Email: <u>ored-rfdteam@uidaho.edu</u>
 - Url: <u>https://www.uidaho.edu/research/about/orfd</u>





Review national reports on state of STEM graduate education^{1,2,3,4,5,6,7}

Get copies of funded NRT proposals (<u>NSF Awards Advanced Search</u>)

REQUEST RFD SERVICES





FACULTY SUCCESS **SEMINARS**

THANK YOU!

QUESTIONS?

FALL 2020

NSF Research Traineeship (NR) Sept. 9 **Tips for Writing a Competitive Pr** Sept. 23 NSF CAREER All Year: Getting R Sept. 30 NSF EPSCoR RII Track-2: Tips for Writing a Competitive Proposal Find Funding Opportunities: Intr **Oct.** 7 **NSF CAREER All Year: Getting** Oct. 21 **Started on Your Proposal UPDATE:** Mountain West Clinica Nov. 4 Translational Research-Infrastru (MW CTR-IN) Funding Opportun Myth-busting Department of De Nov. 18 **Funding Opportunities** M. J. Murdock Trust's Commerc Dec. 2 **Program:** Tips for Writing a Com



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

SPRING 2021

T) Program:	Jan. 13	Find Funding Opportunities: Introduction	on to Pivot	
roposal	<u>Jan. 27</u>	Funding Research and Scholarly		
leady to Apply		Work in the Humanities		
or	Feb. 3	Idaho is an EPSCoR State - What This Means for Supporting Your Research		
oduction to Pivot Feb. 17 How to Develop and Deliver an Effe		e Pitch		
	<u> Mar. 3</u>	Assessing Your Grant Readiness		
•	Mar. 24	Early Career Faculty Research - Grant	er Faculty Research - Grant Programs	
l and Icture Network hities	<u>Apr. 7</u>	USDA NIFA AFRI: Tips for Getting Started with Your Next Proposal		
efense	<u>Apr. 14</u>	Developing Data Management Plans - Best Practices and Resources		
cialization Initiation petitive Proposal	<u>Apr. 28</u>	Equipment Grant Programs: An Overview		
		ZOOM ID uidaho.zoom.us/j/95865360877		
			scan this zoom with	

Office of Research and Faculty Development

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GUEST SPEAKER Q&A Directorate for Education & Human Resources

Brief overview & introductory comments about NRT Q&A session

Email: vlohani@nsf.gov

Phone: (703) 292-2330







DIRECTORATE FOR EDUCATION & HUMAN RESOURCES



Septemb er 9

NSF Research Traineeship (NRT) Program

Vinod K Lohani, PhD **Program Director Division of Graduate Education National Science Foundation**

Faculty Success Seminar, University of Idaho





EHR

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NSF Research Traineeship (NRT)

- Interdisciplinary/Convergent Research Institutional Change Workforce Development

Solicitation NSF 19-522 - up to \$3M over 5 years

(New solicitation will be posted in late fall)



Encouraging the development of innovative models for interdisciplinary/convergent STEM graduate training

Key Traineeship Goals



EHR

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Architecture of a successful NRT







Research Interdisciplinary/Convergent

Training

Institutional Change

Workforce Development



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NSF & NRT Merit Review Criteria

NRT-specific criteria

- Integration of research & education Interdisciplinarity/Convergence Professional development/training Integrating diversity Evaluation

- lacksquare

NSF criteria

- Intellectual merit
- **Broader** impacts





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Thanks for your attention!

Questions?

