FACULTY SUCCESS SEMINARS

University *of* Idaho

Please keep your microphone muted until the Q&A session

IDAHO IS AN EPSCOR STATE – *WHAT THIS MEANS FOR SUPPORTING YOUR RESEARCH*

RESEARCH AND FACULTY DEVELOPMENT FACULTY SUCCESS SEMINAR SERIES

Carly Cummings, PhD, CPRA
Director, Office of Research and Faculty Development

Expert Guest: Andy Kliskey, PhD
Project Director, Idaho EPSCoR; Professor, Forest, Rangeland, and Fire Sciences (CNR) and Landscape Architecture (CAA)

Please note that this session is being recorded

HOUSEKEEPING ITEMS

- This seminar is being recorded

  - Please stay muted until the Q&A portion at the end of the seminar

  - Type questions into the chat box and these will be addressed during the Q&A portion

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:

- EPSCoR programs

  - Overview

  - Federal agency funding opportunities for EPSCoR jurisdictions

- Hear from the expert– Andy Kliskey

  - How to connect with the Idaho EPSCoR Office to enhance the competitiveness of your next EPSCoR proposal

NSF EPSCOR

EPSCoR: <u>E</u>stablished <u>P</u>rogram to <u>S</u>timulate <u>Co</u>mpetitive <u>R</u>esearch

- **Assist NSF's Mission:** "to strengthen research and education in science and engineering throughout the United States and to avoid undue concentration of such research and education.

  - A jurisdiction is eligible to participate in NSF EPSCoR if their most recent 5-year level of total NSF funding is equal to or less than 0.75% of the total NSF budget

- **EPSCoR goals:**

  - Catalyze the development of research capabilities and the creation of new knowledge that expands jurisdictions' contributions to scientific discovery, innovation, learning, and knowledge-based prosperity;

NSF EPSCOR

EPSCoR

- **Achieving EPSCoR goals:**

  - Research Infrastructure Improvement (RII) funding programs

  - Co-funding awards

  - Workshops and outreach

NSF EPSCOR RII

- **EPSCoR RII Eligible jurisdictions (28):**
  - Alabama, Alaska, Arkansas, Delaware, Guam, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Mississippi, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Puerto Rico, Rhode Island, South Carolina, South Dakota, Vermont, US Virgin Islands, West Virginia, and Wyoming

NSF EPSCOR

- EPSCoR Research Infrastructure Improvement (RII) Program

  - **Track-1 Program** (website)

    - Up to $20 million over 5 years

    - Research-driven improvements to jurisdictions' physical and cyber infrastructure and human capital → competitiveness

      - Topical areas chosen by the jurisdiction's EPSCoR steering committee

    - One proposal submitted *per jurisdiction*

      - Idaho is a current awardee (UI, BSU, ISU)! More on this later…

NSF EPSCOR

- EPSCoR Research Infrastructure Improvement (RII) Program

  - ## Track-2 Focused EPSCoR Collaborations (FEC) Program (website)

    - PI and represented jurisdictions must include Co-PIs (at least 2 jurisdictions)
    - The primary driver for RII Track-2 FEC investments is the need to build investigator-driven, inter-jurisdictional research collaborations that have the potential to be nationally and internationally competitive.

    - RII Track-2 FEC proposals are unique in their integration of researchers into collaborative teams, and must develop a diverse, well-prepared, STEM-enabled workforce necessary to sustain research competitiveness.

    - The recruitment and/or development of diverse early-career faculty are critical in achieving this goal and must be an integral component of the proposed project.

NSF EPSCOR

- EPSCoR Research Infrastructure Improvement (RII) Program

  - Track-2 FEC Program (cont'd) (website)

    - Single topic chosen for each solicitation

      - Historically, topics remain the same for 2 years

      - *FY21 topic*: "Advancing research towards Industries of the Future to ensure economic growth for EPSCoR jurisdictions"

    - Limit on Number of Proposals per Organization: 1

      - RFD uses internal review process to determine which proposal will be submitted

NSF EPSCOR

EPSCoR Research Infrastructure Improvement (RII) Program

- ### Track-2 FEC Program (cont'd) ([website](#))

  - **Funding & Duration:** $5M - $7.5M for projects up to 4 years
    - Based on the number of eligible jurisdictions participating in the project
      - If two RII-eligible EPSCoR jurisdictions collaborate: up to $1 million per year
      - If three or more RII-eligible EPSCoR jurisdictions collaborate on a proposal: up to $1.5 million per year
    - 5 awards are expected
  - **Annual Deadlines:**
    - Letter of Intent (required): December 18
    - Full Proposal Deadline: January 25

NSF EPSCOR

EPSCoR Research Infrastructure Improvement (RII) Program

- ### Track-4: EPSCoR Research Fellows Program (website)

  - Principal Investigators (PIs) must either hold a non-tenured faculty appointment at an institution of higher education or an early-career, career-track appointment at an eligible non-degree-granting institution.

  - Further develop the individual research potential of PIs through extended collaborative visits to the nation's premier private, governmental, or academic research centers of their choice

NSF EPSCOR

EPSCoR Research Infrastructure Improvement (RII) Program

Track-4: EPSCoR Research Fellows Program (cont'd) (website)

- The experiences gained through the fellowships are intended to have lasting impacts that will enhance the Fellows' research trajectories well beyond the award period. These benefits to the Fellows are also expected to improve the research capacity of their institutions and jurisdictions more broadly.

- 3 applications per jurisdiction – RFD runs internal competition

  - *2021 internal competition completed*

- Upcoming deadlines: April 26, 2021; April 12, 2022

IDAHO INFRASTRUCTURE IMPROVEMENT STRATEGY

- **Track-1**

- Track-2

- Track-3

- Track-4

- Statewide collaboration
- Stakeholders as partners
- New faculty positions
- Synergies among university research institutes
- Collaborations with primarily undergraduate institutions
- Landscapes as natural laboratories
- Integrated research, education, and workforce development

IDAHO RII TRACK-1 AWARDS

- Track-1
- Track-2
- Track-3
- Track-4

- Linking Genome to Phenome to Predict Adaptive Responses of Organisms to Changing Landscapes (GEM3); 2018-2023; $20M plus 20% State match
  - Year 3 Seed grant proposals (Small Research; Large Research, WFD)
    - Due Feb 19,2021
  - Year 3 VIP Education funding proposals
    - Now
- Proposal development process for next Track-1 ~ 2021-2022

IDAHO EPSCOR RII TRACK-2

- Track-1
- **Track-2**
- Track-3
- Track-4

- Collaborative awards between a Idaho university and universities in one or more other EPSCoR jurisdictions

- Build interjurisdictional collaborative teams of EPSCoR investigators in scientific focus areas consistent with NSF priorities
  - Genome to Phenome
  - Harnessing the Data Revolution.
  - **Industries of the Future**

- Future seed funding to support interjurisdiction collaborations

IDAHO EPSCOR RII TRACK-2

- Track-1
- **Track-2**
- Track-3
- Track-4

- Using Biophysical Protein Models to Map Genetic Variation to Phenotypes; (2017-2021) $6,000,000. ID-VT-RI. PI: Marty Ytreberg

- Leveraging Big Data to Improve Prediction of Tick-Borne Disease Patterns and Dynamics. ID-NV-NH. PI: Marshall Ma.

- Note: Limited submission - 1 per institution

IDAHO EPSCOR RII TRACK-4

- Track-1

- Track-2

- Track-3

- **Track-4**

- Samrat Choudhury UI; Optimizing the Chemistry of Heterointerfaces in Photovoltaics; (2019-2021) $152K; MGI

- Michael Strickland UI; Multi-omic Approach Towards an Understanding of the Environmental Implications of Antibiotics on Soil Processes; (2018-2020) $216k; PNNL

- Eric Haydn, BSU; Investigating Evolutionary Innovations through Metagenomics; (2017-2019); $131k; UC San Diego
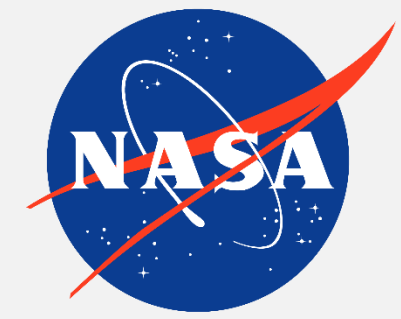
NSF EPSCOR CO-FUNDING

- EPSCoR co-invests with NSF Directorates and Offices

- Supports meritorious proposals from individual investigators, groups, and centers in EPSCoR jurisdictions, including Idaho

- For regular (non-EPSCoR) research and education programs

- Co-funding is not a program to which proposals can be submitted

Idaho Co-funded awards

All Nations LSAMP (Minority Participation); Wiencek, McMurtry, Bisbee; 2019-2021; $1M; Division of Human Resource Development

NASA EPSCOR

Research Initiation Grant Program (website)

- Facilitate development and enhancement of NASA-aligned research capabilities in Idaho

  - New researchers to gain experience

  - Established researchers to take a dramatic step in a new direction

  - Future proposals for further funding

- Award up to $42,000, 1-year

  - Non-federal cash/in-kind match of at least equal amount required

- Past awardees within the last 3 years not eligible to apply

- Deadline: 3/31/2021; Director, Idaho NASA EPSCoR: Dr. Matthew Bernards

DOE EPSCOR

- Office of Science – 2 programs that alternate years:

  - **EPSCoR-State/National Laboratory Partnership** (2019 FOA; new 2021)

    - Supporting fundamental, early-stage energy research collaborations with the DOE national laboratories

      - Information on the DOE national laboratories can be found here

    - Participation by graduate students and/or postdoctoral fellows is required.

    - Junior faculty from EPSCoR jurisdictions are encouraged to apply. Utilization of DOE user facilities is encouraged

      - User Facilities information here; DOE Office of Nuclear Energy user facilities here

DOE EPSCOR

- Office of Science – 2 programs that alternate years:

  - EPSCoR-State/National Laboratory Partnership (cont'd)

    - Up to $750K, for up to 3 years

    - Limited submission: 3 applications/institution

      - RFD runs internal competition

DOE EPSCOR

- Office of Science – 2 programs that alternate years:
  - Implementation Grants (FOA [here] issued Oct. 2020)
    - Improve research capability through the support of a group of scientists and engineers working on a common scientific theme in 1+ EPSCoR jurisdictions.
    - $1M - $1.5M/year for new awards (renewable, up to 6 years)
    - 1 pre-application/institution (*this has taken place – look for 2022*)

DOD EPSCOR (DEPSCOR)

- Goals
  - Enhance capabilities of IHE to develop, plan, and execute science and engineering (S&E) research relevant to DoD mission
  - Increase the number of university researchers in eligible jurisdictions performing S&E research relevant to DoD mission
  - Increase probability of long-term growth in competitively awarded financial assistance that eligible IHE receive from federal government for S&E research
- July 2020 webinar slides here
- FY2020 FOA here

DOD EPSCOR (DEPSCOR)

- **Collaborative research grants**
  - Team: (1) Applicant (PI) and (2) collaborator (Co-PI) must be tenure-track or tenured faculty members
    - PI must *have never served* as a PI on a prior DoD-funded award
    - Co-PI must *have served* as a PI on a DoD-funded award in the last 7 years
  - Topics detailed in FOA
    - Army Research Office, Air Force Office of Scientific Research, Office of Naval Research
- **White paper submission (Sep. 2020), full proposal by invitation only (Feb 2021)**

OTHER FEDERAL PROGRAMS

NIH Institutional Development Award (IDeA) program

- Builds research capacities in 23 states and Puerto Rico with historically low levels of NIH funding

- Administered by the National Institute of General Medical Sciences (NIGMS)

- Includes INBRE (Idaho INBRE), COBRE (UI IMCI, phase 2), IDeA-CTR (MW CTR-IN)

  - Capacity and infrastructure improvements

  - Local awards offer seed funding

OTHER FEDERAL PROGRAMS

USDA NIFA Agriculture and Food Research Initiative (AFRI)

- Food and Agricultural Science Enhancement (FASE) grant program

  - Strengthen capabilities in research, education and/or extension programs

  - 15% of budget set aside

    - New investigator, strengthening standard, strengthening CAP, strengthening conference, seed, equipment, sabbatical, fellowship grants

  - Program areas align with Farm Bill Priorities

RFD CAN ASSIST YOU!

REQUEST RFD SERVICES

- Email: ored-rfdteam@uidaho.edu
- Url: https://www.uidaho.edu/research/about/orfd

Q&A WITH OUR EXPERTS!

ANDY KLISKEY, PROJECT DIRECTOR, IDAHO NSF EPSCOR

MATT BERNARDS, DIRECTOR, IDAHO NASA EPSCOR

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

ZOOM ID
uidaho.zoom.us/j/95865360877

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WE GUIDE THE DEVELOPMENT OF COMPETITIVE EXTERNAL GRANT PROPOSALS

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