Welcome to the Research and Creative Activity Update!

The Office of Research and Creative Activity (RCA) sends weekly emails to NDSU faculty and staff to provide current information on various topics including funding opportunities, grant program changes, research resources, deadlines, notices, and training.

These weekly email updates are archived on the [RCA Website](http://www.rca.ndsu.nodak.edu).

### FUNDING OPPORTUNITIES

- NSF: Future of Work at the Human-Technology Frontier: Advancing Cognitive and Physical Capabilities (FW-HTF)
- NSF I-Corps Teams (National Innovation Network Teams)
- Limited Submission Program: NSF Research Experiences for Teachers (RET) in Engineering and Computer Science
- Limited Submission Program: NSF Innovations in Graduate Education
- NSF and USDA-NIFA: Innovations at the Nexus of Food, Energy and Water Systems (INFEWS)

### NEWS & NOTICES

- Block Grants and Specific Block Grant Applications

### EVENTS

- Undergraduate Research Week: Explore the Opportunities
- WEBINAR: Building an Exceptional Animal Care and Use Program Through Engaged Leaders and Continuous Improvement
- Research Integrity and Compliance Spring Fling Appreciation Social

### NSF – Future of Work at the Human-Technology Frontier: Advancing Cognitive and Physical Capabilities (FW-HTF)

The Future of Work at the Human-Technology Frontier (FW-HTF) is one of 10 new and far-sighted Big Ideas for Future Investments announced by NSF in 2016. NSF aims to respond to the challenges and opportunities of the changing landscape of jobs and work by supporting convergent research to: understand and develop the human-technology partnership; design new technologies to augment human performance; illuminate the emerging socio-technological landscape and understand the risks and benefits of new technologies; and foster lifelong and pervasive learning with technology. In order to be nimble and responsive to new opportunities and challenges as they are recognized, focus areas may change from year to year. This solicitation focuses on advancing cognitive and physical capabilities in the context of human-technology interactions. The solicitation will support two themes: Theme 1 will focus on Foundations for Augmenting Human Cognition and Theme 2 will focus on Embodied
Intelligent Cognitive Assistants. Projects must include a Collaboration Plan which outlines the way in which the project will leverage and integrate multiple disciplinary perspectives. Two classes of proposals — differing in scope, duration, and team size — will be considered through this solicitation:

- Small projects may be requested for a total budget ranging from $750,000-1,500,000 for a period of 3 to 5 years
- Large projects may be requested for a total budget ranging from $1,500,001-3,000,000 for a period of 3 to 5 years.

Letter of Intent Due: April 16, 2018; Full Proposals Due: June 4, 2018

NSF I-Corps Teams (National Innovation Network Teams)
The goals of the NSF I-Corps Teams program are to spur translation of fundamental research to the market place, to encourage collaboration between academia and industry, and to train NSF-funded faculty, students and other researchers in innovation and entrepreneurship skills. The NSF I-Corps Teams Program identifies NSF-funded researchers who will receive additional support in the form of entrepreneurial education, mentoring and funding to accelerate innovation that can attract subsequent third-party funding. The purpose of the NSF I-Corps Teams grant, six months in duration, is to give the project team access to resources to help determine the readiness to transition technology developed by previously-funded or currently funded NSF projects. A webinar is held monthly to answer questions about this program. Also see FAQ's for I-Corps Team Solicitation. Proposals Accepted Anytime.

Limited Submission Program: NSF Research Experiences for Teachers (RET) in Engineering and Computer Science

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

NSF Research Experiences for Teachers (RET) in Engineering and Computer Science: Notify RCA by 6/8/2018, 4 p.m.

The program supports active long-term collaborative partnerships between K-12 Science, Technology, Engineering, Computer and Information Science, and Mathematics (STEM) in-service and pre-service teachers, full-time community college faculty, and university faculty and students to enhance the scientific disciplinary knowledge and capacity of the STEM teachers and/or community college faculty through participation in authentic summer research experiences with engineering and computer science faculty researchers. The research projects and experiences all revolve around a focused research area related to engineering and/or computer science that will provide a common cohort experience to the participating educators.

Application deadline: September 19, 2018

Limited Submission Program: NSF Innovations in Graduate Education

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

NSF Innovations in Graduate Education: Notify RCA by 6/15/2018, 4 p.m.

The Innovations in Graduate Education (IGE) program is designed to encourage the development and implementation of bold, new, and potentially transformative approaches to STEM graduate education training. The program seeks proposals that explore ways for graduate students in research-based master’s and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The program addresses both workforce development, emphasizing broad participation, and institutional capacity...
building needs in graduate education. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged.

Application deadline: September 27, 2018; September 27, 2019

**NSF and USDA-NIFA: Innovations at the Nexus of Food, Energy and Water Systems (INFEWS)**

The National Science Foundation (NSF) and the United States Department of Agriculture (USDA) announced a joint funding program: Innovations at the Nexus of Food, Energy and Water Systems (INFEWS). The overarching goal of INFEWS is to catalyze the well-integrated interdisciplinary research efforts to transform scientific understanding of the FEW nexus in order to improve system function and management, address system stress, increase resilience, and ensure sustainability. This program fits within NDSU’s strategic research themes. You can view this funding opportunity through the [NSF Solicitation](https://www.nsf.gov), or the [USDA-NIFA RFA](https://www.usda.gov).

Application Deadline: September 26, 2018.

**Block Grants and Specific Block Grant Applications**

At times, the federal government dispenses programmatic funding in the form of block grants to the states. The states are then given the discretion as to how implement the program and the affiliated funding through this “block” of funding or block grant. The following link defines block grants and references how to apply for Specialty Crop Block Grants, Preventative Health and Health Services Block Grants and Social Services Block Grant Program.

**Undergraduate Research Week: Explore the Opportunities**

Mark your calendars to join us April 16-20, 2018 for a week of celebration and learning about undergraduate research and creative activity at NDSU. Sessions for faculty and students are planned:

- Resources for Research: How You Can Use the Library for a Chance to Win $250
- Undergraduate Research Student Panel
- Demystifying National Scholarship Opportunities
- Preparing to Apply to Graduate School
- Graduate Student Panel
- Communicating Science
- Applying for and Managing an NSF REU Program
- Mentoring Undergraduate Researchers

**Encourage your students to attend these sessions!** If you would like to incorporate them into your coursework, we will be able to provide attendance records from the events.

Other opportunities include:

- Visual Art Baccalaureate Exhibition at The Gallery in the Memorial Union
- Interactive Cooperative Question on the second floor of the Memorial Union
- Innovation Challenge Awards Ceremony
- Undergraduate Research Student Organization Informational Session

For more information and a complete schedule of events, visit the [Research and Creative Activity website](https://www.ndsu.edu/research/undergraduate_research).
WEBINAR – Building an Exceptional Animal Care and Use Program Through Engaged Leaders and Continuous Improvement
The IACUC Office invites you to attend the upcoming PRIM&R (Public Responsibility in Medicine and Research) Webinar which will cover the important features of an effective animal care and use program, key elements to foster a culture of care, and how the 3 S’s (good science, good sense, and good sensibilities) complement the 3 R’s (reduction, replacement, and refinement). The Webinar will be hosted in Research 1, Room 148 on April 18 from 12:00-1:30 p.m. You are welcome to bring your lunch to this session.

Research Integrity and Compliance Spring Fling Appreciation Social
In appreciation for your contribution to NDSU Research, the Research Integrity and Compliance (RIC) team invites researchers and compliance committee members to attend the first annual Spring Fling Appreciation Social. Join us May 2 from 3:00-5:00 p.m. in Research 1, Room 148. Light refreshments will be served.

You are receiving this notification through the NDSU official employee listserv or sub-list. The official listserv refreshes after each pay period.

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