

From: All NDSU Employee list  
To: [NDSU-EMPLOYEE-OFFICIAL@LISTSERV.NODAK.EDU](mailto:NDSU-EMPLOYEE-OFFICIAL@LISTSERV.NODAK.EDU)  
Subject: RCA Update - August 13, 2018 Edition  
Date: Monday, August 13, 2018 3:01:38 PM

---

# NDSU OFFICE OF RESEARCH AND CREATIVE ACTIVITY

## RCA UPDATE

August 13, 2018

---

### 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](#).

### SEARCH FOR NDSU SCHOLARS

#### FUNDING OPPORTUNITIES

- [American Philosophical Society: Franklin Research Grants](#)
- [Center for Craft, Creativity, & Design](#)
- [DHS: Countering Weapons of Mass Destruction](#)
- [DOE ARPA-E: Novel Heat Exchanger Technologies](#)
- [DOI: Remote Sensing Education and Research](#)
- [Furthermore Grants in Publishing](#)
- [John Templeton Foundation: Grants in Humanities and Sciences](#)
- [Morris Animal Foundation: Wildlife / Exotics Health](#)
- [NIH: Prevention Research in Mid-Life Adults](#)
- [NIH: Cancer Research Education Grants](#)
- [NSF: Developmental Sciences](#)
- [NSF: Social Psychology](#)
- [Simons Foundation: Mathematics & Physical Sciences](#)

#### NEWS & NOTICES

- [Class for NSF Graduate Research Fellowship Applicants](#)
- [Attending Veterinarian Wins Award](#)

#### EVENTS

- [Summer Ice Cream Social and Appreciation Event](#)
- [RCA Staff to Present at Annual Faculty Conference](#)

### American Philosophical Society: Franklin Research Grants

The [Franklin program](#) is particularly designed to help meet the costs of travel to libraries and archives for research purposes; the purchase of microfilm, photocopies, or equivalent research materials; the costs associated with fieldwork; or laboratory research expenses.

They are not intended to meet the expenses of attending conferences or the costs of publication. Applications require two letters of support.

*Application deadlines: October 1, 2018 and December 3, 2018*



### Center for Craft, Creativity, & Design: Craft Research

The mission of the [Center for Craft, Creativity & Design](#) (CCCD) at the University of North Carolina is to advance the understanding of craft by encouraging and supporting research, critical dialogue, and professional development. CCCD's programs strive to support the best examples of research and practice in the field. Since 2005, the center's [Craft Research Fund grant program](#) has worked to advance research about craft in the United States. The program supports innovative research on critical issues in craft theory and history, the inter-relationship among craft, art, design and contemporary culture, and new cross-disciplinary approaches to scholarship in the craft field. The fund offers three types of grants:

- 1) Project Grants: Grants up to \$15,000 will be awarded in support of research, writing, support documentation, images, or image rights as part of the research to be completed.
- 2) Exhibition Research Grants: Grants of up to \$15,000 will be awarded to support exhibition research relating to the goals of the Craft Research Fund.
- 3) Graduate Research Grants: Grants of up to \$5,000 will be awarded in support of research related to a master's thesis focused on U.S. studio craft by students enrolled in graduate programs in any accredited college or university.

Proposals are welcome from curators, researchers, independent scholars, and graduate students. Applicants must be a citizen of the U.S., in the process of applying for citizenship, or have a U.S. Social Security number.

*Application deadline: September 28, 2018 for Graduate Research Grants; October 19, 2018 for Project and Exhibition Grants*



#### **DHS: Countering Weapons of Mass Destruction – Transformative Solutions Incubator**

The Department of Homeland Security (DHS) Office of Procurement Operations holds the [Transformative Solutions Incubator \(TSI\)](#) which seeks to move promising technologies from academic research to the marketplace to support the needs of DHS operational components in the [Countering Weapons of Mass Destruction](#) mission space. The TSI does this by:

- 1) identifying suitable DHS operational requirements that can be addressed by academic research,
- 2) developing research topic areas according to those requirements and/or CWMD Office priorities and National Security Strategy, and
- 3) executing Cooperative Agreements with awardees to develop the technology to a point that it can be transitioned to the marketplace.

The TSI facilitates this transition by requiring applicants to have industrial or national laboratory partners.

*Application deadline: August 31, 2018*



#### **DOE ARPA-E: Novel Heat Exchanger Technologies**

The Advanced Research Projects Agency – Energy (ARPA-E) has issued a funding opportunity announcement (FOA) of up to \$35 million for the High Intensity Thermal Exchange through Materials and Manufacturing Processes ([HITEMMP](#)) program, to develop new approaches and technologies for the design and manufacture of high temperature, high pressure, and highly compact heat exchangers.

Heat exchangers are critical to efficient thermal energy use in numerous industrial and everyday applications, including electricity generation, nuclear reactors, transportation, petrochemical plants, waste heat recovery, and much more. HITEMMP projects will target heat exchangers capable of operating for tens of thousands of hours in temperatures and pressures exceeding 800°C and 80 bar (1,160 psi) respectively. HITEMMP project teams must develop [new exchanger topologies](#), or physical designs, that optimize device structure with suitable advanced materials and the fluids flowing through them for the desired range of operating conditions. Equally important is to develop new, or refine existing, manufacturing technologies that enable attractive performance at an acceptable cost. Durable and affordable higher-temperature heat exchangers could lead to substantially higher power conversion efficiencies, which in turn could reduce fuel consumption, system footprint (and thus capital and operation costs), and CO<sub>2</sub> and nitrogen oxide emissions. Additional information, including the full FOA ([DE-FOA-0001970](#)) and how to find project teaming partners, is available on ARPA-E's online application portal, [ARPA-E eXCHANGE](#).

*Concept Paper deadline: 8:30 a.m. on September 12, 2018*



#### **DOI: U.S. Geological Survey – Remote Sensing Education and Research**

The [National Land Imaging \(NLI\) Program](#) of the Department of the Interior (DOI) U.S. Geological Survey (USGS)

Land Resources (LR) mission area is soliciting applications from qualified Educational Institutions, State and Local Governments, and Non-profit Organizations to develop a U.S. national consortium to expand the science of remote sensing through education, outreach and research / applications development for environmental monitoring to include the effects of land use and land cover change on water quality, quantity and utility; societal adaptation and phenology; public health-related issues to include identification of potential indicators relating to vector-borne diseases and harmful algal blooms; natural resource management, agricultural applications, disaster risk reduction, and other land surface and surface water monitoring applications.

*Application deadline: September 4, 2018*



### Furthermore Grants in Publishing

[Furthermore grants in publishing](#), a program of the [J. M. Kaplan Fund](#), supports publication of nonfiction books that concern the arts, history, and the natural and built environment.

*Application deadlines: September 1, 2018 and March 1, 2019*



### John Templeton Foundation: Grants in Core Funding Areas

The [John Templeton Foundation](#) is currently accepting [Online Funding Inquiries](#) for its [Core Funding Areas](#). These [grants](#) can be Small (defined as \$234,800 or less) or Large (defined as more than \$234,800).

In the charter establishing his Foundation, the late Sir John Templeton set out his philanthropic intentions under several broad headings. These Core Funding Areas continue to guide the Foundation's grantmaking as it works to find world-class researchers and project leaders. A number of topics - including creativity, freedom, gratitude, love, and purpose - can be found under more than one Core Funding Area. The Foundation welcomes proposals that bring together these overlapping elements, especially by combining the tools and approaches of different disciplines. An overview of some of the core funding areas follows:

- **Science & the Big Questions**
  - **Mathematical & Physical Sciences:** projects that focus on foundational questions in mathematics or seek a deeper understanding of the nature of reality within the realm of physics, cosmology, astronomy, chemistry, or other physical sciences. Projects unlikely to be supported by conventional funding sources are especially encouraged.
  - **Life Sciences:** projects investigating the evolution and fundamental nature of life, human life, and mind, especially as they relate to issues of meaning and purpose. Projects are welcome from a variety of disciplinary perspectives, including the biological sciences, neuroscience, archeology, and paleontology.
  - **Human Sciences:** projects that apply the tools of anthropology, sociology, political science, and psychology to the various moral and spiritual concepts identified by Sir John Templeton. These include altruism, creativity, free will, generosity, gratitude, intellect, love, prayer, and purpose.
  - **Philosophy & Theology:** projects that attempt to develop new philosophical and theological insights, especially (but not only) in relation to advances in scientific understanding.
  - **Science in Dialogue:** projects that bring one or more scientific disciplines into a mutually enriching discussion with theology and/or philosophy, whether for a scholarly audience or the public at large.
- **Character Development:** a broad range of programs, publications, and studies focused on the universal truths of character development, from childhood through young adulthood and beyond. The qualities of character emphasized by Sir John in the Foundation's charter include awe, creativity, curiosity, diligence, entrepreneurialism, forgiveness, future-mindedness, generosity, gratitude, honesty, humility, joy, love, purpose, reliability, and thrift. The Foundation also has recently supported a major project on wisdom. The Foundation is also interested in projects that deal with the crucial relationship between culture and behavior.

*Online Funding Inquiry Deadline: August 31, 2018*



### Morris Animal Foundation: Wildlife / Exotics Health Research

The mission of [Morris Animal Foundation](#) is to bridge science and resources to advance the health of animals. Toward this aim, they are dedicated to funding hypothesis-driven research projects of high scientific merit and potential impact. Relevant projects promise to advance the health and well-being of wildlife/exotics. The Foundation is now accepting proposals for Established Investigator, First Award, Fellowship Training and Pilot Study grants on topics relevant to wildlife/exotics health. To learn more about each of these grant types and the

application process for each, visit the [Apply For a Grant](#) page of the Foundation's website.

*Application deadline: November 14, 2018*



### **NIH: Prevention Research in Mid-Life Adults (R01)**

This National Institutes of Health (NIH) Funding Opportunity Announcement (FOA), [PA-18-849](#), seeks to stimulate research on mid-life adults (those 50 to 64 years of age) that can inform efforts to optimize health and well-being as individuals age and prevent illness and disability in later years. Although the study of mid-life has increased somewhat over the years, middle-aged adults have frequently been omitted from research on adult development and aging. The goal of this funding opportunity announcement is to:

- 1) identify the unique characteristics of mid-life adults that impact health and well-being and contribute to the prevention of disease and disability;
- 2) identify characteristics, influences, and indicators that are important for optimal health in mid-life adults; and
- 3) develop strategies that promote health and well-being and prevent illness in this population.

A companion funding opportunity, [PA-18-850](#), offering [R21](#) Exploratory/Developmental Grants, is available as well.

*Application deadlines: (standard due dates) October 5, 2018; Feb. 5, 2019; June 5, 2019*



### **NIH: Cancer Research Education Grants Program to Promote Diversity – Research Experiences (R25)**

The National Institutes of Health (NIH) Research Education Program (R25) supports research education activities in the mission areas of the NIH. The over-arching goal of this [National Cancer Institute R25 program](#) is to support educational activities that enhance the diversity of the nation's biomedical, behavioral, and clinical research workforce. To accomplish the stated over-arching goal, this Funding Opportunity Announcement (FOA) will support creative educational activities with a primary focus on Research Experiences. Applications are encouraged that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, and treatment of cancer, rehabilitation from cancer, and the continuing care of cancer patients and the families of cancer patients, as well as the cause and reduction of cancer health disparities in accordance with the [overall mission of the NCI](#).

*Application deadlines: (standard due dates) Sept. 25, 2018; Jan. 25, 2019; May 25, 2019*



### **NSF: Developmental Sciences**

The National Science Foundation (NSF) [Developmental Sciences \(DS\) program](#) supports basic research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to human development across the lifespan. Research supported by this program will add to our knowledge of the underlying developmental processes that support social, cognitive, and behavioral functioning, thereby illuminating ways for individuals to live productive lives as members of society. DS supports research that addresses developmental processes within the domains of cognitive, social, emotional, and motor development across the lifespan by working with any appropriate populations for the topics of interest including infants, children, adolescents, adults, and non-human animals. The program also supports research investigating factors that affect developmental change including family, peers, school, community, culture, media, physical, genetic, and epigenetic influences. Additional priorities include research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods, models, and theories for studying development; includes participants from a range of ethnicities, socioeconomic backgrounds, and cultures; and integrates different processes (e.g., memory, emotion, perception, cognition), levels of analysis (e.g., behavioral, social, neural), and time scales. The DS program also accepts proposals for workshops and small conferences. These typically have total cost budgets, including direct and indirect costs, of approximately \$35,000.

*Application deadline: January 15, 2019*



### **NSF: Social Psychology**

The [Social Psychology Program](#) at the National Science Foundation (NSF) supports basic research on human social behavior, including cultural differences and development over the life span. Among the many research topics supported are: attitude formation and change, social cognition, personality processes, interpersonal relations and group processes, the self, emotion, social comparison and social influence, and the psychophysiological and neurophysiological bases of social behavior. The scientific merit of a proposal depends on four important factors:

- 1) the problems investigated must be theoretically grounded;
- 2) the research should be based on empirical observation or be subject to empirical validation;
- 3) the research design must be appropriate to the questions asked; and
- 4) the proposed research must advance basic understanding of social behavior.

*Application deadline: January 15, 2019*



### **Simons Foundation: Targeted Grants in Mathematics and Physical Sciences**

The Simons Foundation's [Targeted Grants](#) in the Mathematics and Physical Sciences division are intended to support high-risk theoretical mathematics, physics, and computer science projects of exceptional promise and scientific importance. These targeted grants provide funding for up to five years. Funding level and duration is flexible depending on needs of the proposal project. For more information, including [FAQs](#) and [Previous Awardees](#), visit the [program webpage](#).

*Letter of Intent deadline: Accepted anytime / rolling*



### **Class for NSF Graduate Research Fellowship Applicants**

Seniors or 1<sup>st</sup>/2<sup>nd</sup>-year graduate students who are capable researchers should consider applying for the prestigious National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP), which provides an annual \$34,000 stipend and \$12,000 to the institution for three years of graduate school.

Some guidelines for GRFP applicants:

- Must be a senior or early graduate student in STEM/STEM Education
- Must be a US citizen, national, or permanent resident
- Must be able to propose independent, innovative research
- Must have potential for "significant achievements" in a STEM/STEM Education research career
- NSF GRFP applications are due at the end of October

The NDSU Center for Writers offers an 8-week, 1 credit class, UNIV 440/640, which helps students to plan and write their applications. In the last 3 years, 5 students who took the class were awarded GRFPs.

More information about the GRFP can be found [HERE](#).

More information about the class can be found [HERE](#), or by contacting Enrico Sassi ([enrico.sassi@ndsu.edu](mailto:enrico.sassi@ndsu.edu)).



### **NDSU Attending Veterinarian Wins Award**

Dr. Neil Dyer, NDSU Institutional Attending Veterinarian and Director of Animal Resources, was honored as the "2018 North Dakota Veterinarian of the Year" by the North Dakota Veterinary Medical Association (NDVMA) at the organization's Annual Meeting held in Fargo on August 2-4, 2018. The award highlighted Dyer's 27 years in the veterinary profession, his long term service to his community and to veterinary medicine in North Dakota, and his advocacy for the advancement of the veterinary profession especially with pre-veterinary and veterinary students.



### **Summer Ice Cream Social and Appreciation Event**

In appreciation for your contribution to NDSU Research, the Research Integrity team invites researchers and IACUC, IBC, and IRB committee members to attend a Summer Ice Cream Social.

Please join us Wednesday, August 15, from 2:00-4:00 p.m. in the Research 1 Atrium/South Lawn. We will have ice cream sundaes and yard games. Hope to see you there!



### **RCA Staff to Present at NDSU's Annual Faculty Conference – August 17, 2018**

Research and Creative Activity staff involved with sponsored programs administration and research integrity will be presenting during the concurrent sessions at the August 17<sup>th</sup> Annual Faculty Conference in the NDSU Memorial Union. Topics and session times include:

**9:30 - 10:20 a.m. | Developing Proposal Budgets and Budget Justifications**

*Presented by Cindy Eleson and Vicki Miller | Memorial Union Badlands Room*

This session includes an introduction to proposal budgets, budget justifications and a breakdown of cost categories.

**10:30 – 11:20 a.m. | Getting Started: Research and Grants at NDSU**

*Presented by Amy Scott and Jill Mackenzie | Memorial Union Badlands Room*

This session is geared toward new faculty and will include an introduction to the processes one needs to know to get started with research and grants at NDSU. Topics covered include the grant proposal process, proposal transmittal forms, and resources on the web.

**1:00 - 1:50 p.m. | Hot Topics in Research Integrity and Faculty Research Support at NDSU**

*Presented by Kristy Shirley, Julie Sherwood, Josie Hayden, and Sharon May | Memorial Union Badlands Room*

This session will include a basic overview of review processes for the IACUC (animal care and use), IBC (biosafety) and IRB (human subjects) committees, updates on recent and upcoming regulatory changes, information on export controls, and a discussion of requirements for disclosing and managing potential conflicts of interest.

For more information, visit the [Faculty Conference Website](#).



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

*North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to: Equal Opportunity Specialist, Old Main 201, 701-231-7708 or Title IX/ADA Coordinator, Old Main 102, 701-231-6409.*

---