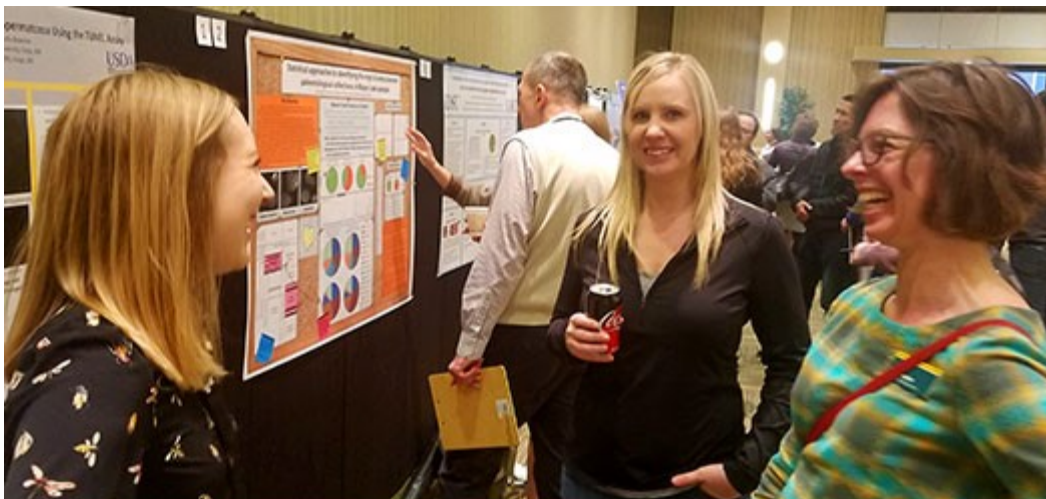


RCA UPDATE

December 2, 2019

NDSU EXPLORE 2020



NDSU **EXPLORE**
UNDERGRADUATE EXCELLENCE IN RESEARCH AND CREATIVE ACTIVITY

Set your calendars for NDSU EXPLORE – April 22, 2020! This event encourages and celebrates the scholarly research accomplishments of NDSU undergraduate students and provides a great opportunity for them to

present their research. Now is the time to begin talking about this event with your undergraduate students and to encourage them to participate.

More details are available [here](#).

If you would like to help support NDSU EXPLORE, all funds raised by RCA during this year's NDSU Giving Day on December 3 will go to provide scholarships for NDSU EXPLORE award winners. More information is available [here](#).



Congratulations to all award recipients from October 2019!

View the complete list online: [PDF](#) | [Excel](#)

The awards listed are externally funded projects. Each month one of the RCA Updates will include prior month awards.

[See Award Reports from previous months >>](#)

CONTENTS

FUNDING OPPORTUNITIES

- [Delmas Foundation: Humanities Programs](#)
- [DOE: Energy Frontier Research Centers](#)
- [EPA: Research on PFAS Impacts in Rural Communities and Agricultural Operations](#)
- [NSF: EPSCoR Research Infrastructure Improvement Track-4 - Research Fellows](#)
- [W. M. Keck Foundation: Medical Research, Science and Engineering](#)

EVENTS & NOTICES

- [2020 NSF ENG CAREER Proposal Workshop](#)
- [NDSU Core Biology Facility - End of Year Promotion](#)
- [Proposal Development Program](#)
- [Showcase of Student Writing](#)

Looking for
Collaborators?
Visit the
[NDSU Scholars
Database](#)

In Search of
Equipment?
Check the
[NDSU Equipment
Database](#)



Need to update your profile?
Click here to learn how!

Delmas Foundation: Humanities Program

Through the [Humanities Program](#), the Delmas Foundation intends to further the humanities along a broad front, supporting projects which address the concerns of the historical *studia humanitatis*: a humanistic education rooted in the great traditions of the past; the formation of human beings according to cultural, moral, and aesthetic ideals derived from that past; and the ongoing debate over how these ideals may best be conceived and realized.

Programs in the following areas are eligible: history; archaeology; literature; languages, both classical and modern; philosophy; ethics; comparative religion; the history, criticism, and theory of the arts; and those aspects of the social sciences which share the content and methods of humanistic disciplines. The Foundation welcomes projects that cross the boundaries between humanistic disciplines and explore the connection between the humanities and other areas of scholarship. The geographical concentration is primarily but not exclusively directed toward European and American history and letters, broadly defined.

The Humanities Program is primarily directed to institutions of higher education and humanistic enterprises such as learned societies, museums, and major editorial projects. The program may also consider, on a selective basis, projects that increase the exposure of those outside these institutions to the humanistic experience or that strengthen preparation for the humanistic disciplines. *The prime criterion remains that of Gladys and Jean Delmas: a commitment to excellence, whether proven or promised.*

Please see the [application instructions](#) for more information.

The Foundation reviews proposals throughout the year.

[Track this program >>](#)

The Foundation also supports a [Research Libraries program](#); the objective is to improve the ability of research libraries to serve the needs of scholarship in the humanities and the performing arts, and to help make their resources more widely accessible to scholars and the general public.

^^

DOE: Energy Frontier Research Centers - Limited Submission Program

[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.

DOE EFRC : [Notify RCA](#) by 12/02/2019, 5:00 p.m. if you are interested in applying.

The Department of Energy's (DOE) Office of Basic Energy Sciences (BES) announces the call for [Energy Frontier Research Centers \(EFRC\)](#) proposals and encourages both new and renewal applications. Applications will be required to address priority research directions and opportunities identified in recent BES workshop and roundtable reports, the scientific grand challenges identified in the report *Directing Matter and Energy: Five Challenges for Science and the Imagination*, **and** the opportunities described in the report *Challenges at the Frontiers of Matter and Energy: Transformative Opportunities for Discovery Science*.

BES is soliciting proposals in four (4) topical areas:

- 1) Environmental Management (new and renewal proposals);
- 2) Quantum Information Science (new proposals only);
- 3) Microelectronics (new proposals only); and
- 4) Polymer Upcycling (new proposals only).

Cost sharing is not required.



EPA: Research on PFAS Impacts in Rural Communities and Agricultural Operations

The U.S. Environmental Protection Agency is seeking applications [[EPA-G2020-ORD-B1](#)] to better understand the potential impacts of per- and poly-fluoroalkyl substances (PFAS) on water quality and availability in rural communities and agricultural operations across the United States. The Agency is seeking new information on PFAS occurrence, fate, and transport in water sources used by rural communities and agricultural operations, and new or improved PFAS treatment methods appropriate for small drinking water and wastewater systems including influents, effluents, and biosolids/residuals.

Application deadline: February 11, 2020



NSF: EPSCoR Research Infrastructure Improvement Track-4 - EPSCoR Research Fellows (RII Track-4) - Limited Submission Program

[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 EPSCoR Track 4 : [Notify RCA](#) by 12/13/2019, 5:00 p.m. if you intend to apply.

The [RII Track-4 Fellows program](#) [NSF 18-526] provides an opportunity for *non-tenured* faculty to spend extended periods of time at the nation's premier research facilities. The fellowship period may be used to initiate new collaborative relationships, to expand existing partnerships in ambitious new directions, or to make use of unique equipment not available at the PI's home institution. Successful fellowships will positively impact and potentially transform the recipient's research career trajectory. Any research topic eligible for consideration under NSF's policies will be considered for RII Track-4 support. The fellowship host site may be any academic, governmental, commercial, or non-profit research facility within the United States or its territories.

NDSU is allowed to submit three RII Track-4 proposals to NSF in response to this solicitation, so the [Limited Submission process](#) will apply.

Eligible PIs employed by degree-granting institutions of higher education must hold a *non-tenured faculty appointment*. This may be in the form of a pre-tenure tenure-track position or a long-term non-tenure-track position. RII Track-4 awards will be made as standard grants. The award amount will not exceed \$300,000 and the project duration will not exceed 24 months. **Only single-PI proposals will be considered. No co-PIs should be included on the proposal.**

^^

W. M. Keck Foundation

W. M. Keck Foundation's [Research Program](#) seeks to benefit humanity by supporting projects in two specific areas - (1) medical research and (2) science and engineering - that are distinctive and novel in their approach, question the prevailing paradigm, or have the potential to break open new territory in their field. Past grants have been awarded to major universities, independent research institutions, and medical schools to support pioneering biological and physical science research and engineering, including the development of promising new technologies, instrumentation, or methodologies. Historically, grants range from \$500,000 to \$5 million and are typically \$2 million or less.

Program priorities include projects in research that:

- Focus on important and emerging areas of research

- Have the potential to develop breakthrough technologies, instrumentation or methodologies
- Are innovative, distinctive and interdisciplinary
- Demonstrate a high level of risk due to unconventional approaches, or by challenging the prevailing paradigm
- Have the potential for transformative impact, such as the founding of a new field of research, the enabling of observations not previously possible, or the altered perception of a previously intractable problem
- Does not focus on clinical or translational research, treatment trials or research for the sole purpose of drug development
- Fall outside the mission of public funding agencies
- Demonstrate that private philanthropy generally, and the W. M. Keck Foundation in particular, is essential to the project's success

Applicants are strongly urged to contact Foundation staff during the pre-application counseling period.

Pre-Application Counseling: January 1-February 15, 2020

Application Deadline: May 1, 2020

[Track this program >>](#)

[^^](#)

2020 NSF ENG CAREER Proposal Workshop

The National Science Foundation (NSF) CAREER program is a Foundation-wide activity that offers NSF's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. An [NSF CAREER Proposal Workshop](#) focused on engineering will be held March 31 – April 2, 2020 in Arlington, Virginia. The objective of the 2020 NSF ENG Directorate Workshop is to introduce junior faculty who are interested in submitting NSF CAREER proposals to the Directorate for Engineering. The workshop aims to provide individuals with proposal development insights and a forum in which they can interact with NSF program directors and recent NSF CAREER awardees.

Workshop participation will be by invitation, based on applications, and limited to 300 participants who will be selected from the pool of applicants based on:

- applicability of the proposed research to the Directorate for Engineering,
- timeliness and completeness of the application, and
- preference given to those who have not previously attended an NSF Engineering CAREER workshop.

Please review the [application page](#) for further information.

Application Deadline: January 6, 2020

^^

NDSU Core Biology Facility & End of the Year Promotion

The [NDSU Core Biology Facility \(CBF\)](#) assists researchers by providing equipment and resources that might not otherwise be accessible to the standard laboratory. CBF is equipped with BD Accuri C6 flow cytometers, BD FACSJazz cell sorter, Agilent 2100 Bioanalyzer, BioTek Synergy H1 microplate reader, iBright FL 1500 imaging system, Thermo Nanodrop 2000c, and more. In addition, CBF contains the equipment and resources to perform tissue/cell culture. CBF is a reasonable fee structure-based facility with the goal of assisting and promoting research. If interested in touring the facility and/or discussing how the facility may assist your research, please contact the CBF Manager, Dr. Amber Chevalier Plambeck (amber.chevalier@ndsu.edu, 701-231-5334).

From now until the end of the calendar year, the CBF is offering a free training session per laboratory on the Accuri C6 Flow Cytometers. This free training time will benefit laboratories that are interested in using the instruments or need a refresher on proper maintenance. Contact Dr. Chevalier Plambeck (amber.chevalier@ndsu.edu, 701-231-5334) if you are interested in this promotion.

^^

Proposal Development Program

The next session of the RCA Proposal Development Program will focus on **Writing a Good First Page and Project Summary**. It will take place on **Tuesday, December 3** from **12:30-1:30pm** in the **Memorial Union Hidatsa Room**. [Register for this session >>](#)

The purpose of the Proposal Development Program is to provide a professional development opportunity for those new to proposal writing or those seeking a refresher to hone proposal writing skills and increase knowledge about funding agency opportunities. [Learn more and see upcoming sessions >>](#)

[^^](#)

Showcase of Student Writing

The College of Arts, Humanities and Social Sciences has [invited](#) campus to attend the Showcase of Student Writing. The event is scheduled for Monday, December 9, from 10:00am-2:00pm in the Memorial Union Great Plains Room. Students across disciplines display and discuss their academic, creative, and professional writing.

[^^](#)

Have questions, ideas, or suggestions for the RCA Update?

[Contact Us](#)



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.

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.