

NDSU OFFICE OF
RESEARCH AND CREATIVE ACTIVITY

RCA UPDATE

January 21, 2020

Meet NDSU's New Assistant Professors

Throughout the year, RCA will be highlighting new faculty in the weekly newsletter. Full profiles are available on the [RCA website](#).

Torin Greenwood, Ph.D. **Mathematics**

What are your primary research and scholarly interests?

Combinatorics - the science of counting. I use tools from combinatorics to analyze models predicting how RNA sequences fold.

Where are you from and where did you pursue your education?

I was born in Canada but grew up near Rochester, NY. I completed both undergrad and grad school at the University of Pennsylvania, with a year at Duke University in the middle.

What excites you about NDSU?

The math department is filled with friendly people and provides me with



opportunities for collaboration. I also like that Fargo has so much to offer, especially for its size.

What motivates you?

I love working on puzzles and revealing that complicated phenomena may have simple explanations.

[Learn more about Torin >>](#)

Proposal Development Program

The purpose of the Proposal Development Program is to provide a professional development opportunity for NDSU faculty new to proposal writing or those seeking a refresher to hone proposal writing skills and knowledge in funding agency opportunities.

The Proposal Development Program will cover topics ranging from tips for writing proposals to specific agencies to peer review and developing collaborations. The NSF CAREER Program will also be part of the programming.

An experienced grant consultant, faculty, and research support staff will lead the sessions. [Register](#) soon to reserve your spot!

Spring 2020 Sessions

Memorial Union Badlands Room | 12:30pm-1:30pm

- January 28 - Peer Review (*Rescheduled from December*)
- February 11 - NSF CAREER Program
- February 25 - NSF Broader Impacts and Intellectual Merit
- March 10 - Meeting Expectations of Funding Agencies: Foundations and NIH
- March 31 - Meeting Expectations of Funding Agencies: USDA
- April 14 - Developing Collaborations

[Register to Participate >>](#)

NDSU IACUC Rodent Training Series Session 1 Mouse Handling and Husbandry Basics

The first session of the NDSU IACUC Rodent Training Series is scheduled for **Monday, January 27**, from **3-4:30 PM** in **Van Es 107**. The session will cover mouse handling, restraint, and various procedures (e.g. ear punching) as well as welfare and documentation requirements.

This training is open to faculty, staff, and students. Space is limited, so [Register](#) for the event today!

Grant and Contract Accounting Office Has Moved

The Grant and Contract Accounting Office has moved from the Stop-n-Go building to the Thorson Maintenance Center. The offices are located on the south side of the facility, the former space of the Telecommunications Department. The address is 1310 Bolley Drive.

Grants.gov Workspace and the DUNS

Beginning in December 2020, the DUNS number will be replaced by a new unique identifier. In anticipation of this change, starting in March of 2020 fields formerly labeled “DUNS” within Grants.gov will be labeled Unique Employer Identifier or “UEI.” Until further notice, please continue to enter NDSU’s DUNS Number (80-388-2299) when the field labeled “UEI” needs to be completed. [Learn more >>](#)



The Research and Creative Activity office holds a subscription to [Research Development and Grant Writing News](#), a monthly newsletter full of helpful tips and information about funding agencies and writing successful grant proposals.

The January issue is now available to view. Use your NDSU login information to access this resource. Various topics are covered, including:

- Consider Foundations as Potential Funders
- In Proposals, Less is Often More
- AI's Future Impact on STEM Education
- Don't Sell the Funding Solicitation Short
- Humanities and Arts Funding Opportunities and News

CONTENTS

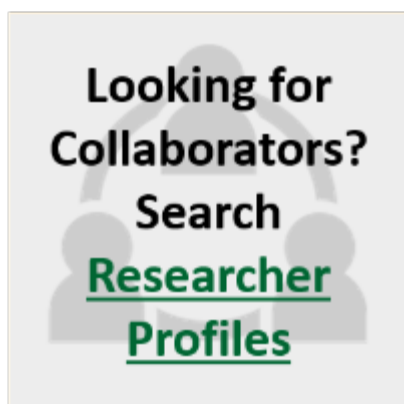
FUNDING OPPORTUNITIES

- [CDMRP: Breast Cancer Research Program](#)
- [DOJ: Office of Violence Against Women Research and Evaluation Initiative](#)
- [EPA: Pollution Prevention Grant Program](#)
- [FFAR: 2020 New Innovators in Food and Agriculture](#)
- [NEH: Fellowships](#)
- [NSF: Algorithms for Threat Detection](#)
- [NSF: Enabling Discovery through Genomic Tools](#)

EVENTS & NOTICES

- [APUC Grants Seminar](#)

- [UND Center for Innovation Workshop: NIH Proposal Prep](#)
- [NDSU Core Biology Facility Training Opportunity](#)



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

DoD CDMRP: Breast Cancer Research Program

The Department of Defense (DoD) Congressionally Directed Medical Research Program (CDMRP) Breast Cancer Research Program (BCRP) is currently accepting applications for five award mechanisms:

- Breakthrough Award Levels 1 and 2
- Breakthrough Award Level 3
- Breakthrough Award Level 4
- Era of Hope Scholar Award
- Innovator Award

For more information, view the [individual program announcements](#).

Pre-Application deadline: March 12-13, 2020, depending on program

DOJ: Office of Violence Against Women Research and Evaluation Initiative

The purpose of the Office on Violence Against Women (OVW)'s [Research and Evaluation \(R&E\) Initiative](#) is to research and evaluate approaches to combating domestic/dating violence, sexual assault, and stalking. By generating more knowledge about strategies for serving victims and holding offenders accountable, communities that benefit from Violence Against Women Act (VAWA) funding will be better equipped to align their work with practices that are known to be effective, and they will be more capable of generating empirical knowledge on the efficacy of new and promising ways of doing things. R&E is designed to support researcher-practitioner partnerships and a broad range of methods, including qualitative, mixed-method, and quasi-experimental designs.

OVW is interested in funding research and evaluation to contribute to knowledge in the six areas of study listed below:

- Justice: Ways the justice system can effectively pursue and achieve justice in cases involving VAWA crimes.
- Victims' needs: How victimization and its aftermath affect people's lives, and what victims need to cope, heal, and achieve safety and justice.
- Cultures, disparities, and access: Ways that cultural differences and social inequalities matter in terms of where and to whom people go for help, and whether people are able to access justice and get services that are useful to them.
- Impact: Short- and long-term impact of the justice system's response, victim services, and other VAWA-funded interventions on victim safety and offender accountability.
- Indicators of success: What success looks like and how to measure it—for victims pursuing safety and justice, for offenders being held accountable for their violence, and for people who work with victims and offenders.
- Reducing recidivism: How to prevent violence from recurring

Proposal deadline: March 25, 2020

Forecasted Opportunity: EPA Pollution Prevention Grant Program

The Environmental Protection Agency (EPA) [Pollution Prevention \(P2\) Grant Program](#) funds two-year projects that provide technical assistance and/or training to help businesses adopt source reduction practices. State governments, colleges and universities (recognized as instrumentalities of the state), federally-recognized tribes and intertribal consortia are all eligible to apply.

P2 is important because it reduces both financial costs (waste management and cleanup) and environmental costs (health problems and environmental damage). Pollution prevention protects the environment by conserving and protecting natural resources while strengthening economic growth through more efficient production in industry and less need for households, businesses and communities to handle waste.

This grant cycle, EPA Region 8 (includes North Dakota) is encouraging applicants to submit proposals that provide technical assistance to businesses through P2 Internship Projects that are designed to link engineering, chemistry, sustainability and environmental science students with businesses.

If you have questions related to the P2 program, please contact Melissa Payan at (303) 312- 6511 or via email at payan.melissa@epa.gov. The FY2020 program deadlines will be announced soon.

FFAR: 2020 New Innovators in Food and Agriculture - 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.

FFAR New Innovators : Submit Pre-proposal by 1/31/2020, 5:00 p.m. if you are interested in being considered for this program.

The Foundation for Food and Agricultural Research (FFAR) seeks nominations for its [2020 New Innovator in Food and Agriculture Research Award](#). With this program, FFAR intends to support and promote the future generation of exceptionally talented and creative new faculty who are conducting critical and highly innovative research, and are establishing research programs that will lead to expanded availability of food and facilitate the global practice of sustainable agriculture as the world's population grows to more than 9 billion people by the year 2050. The New Innovator Award seeks to promote career advancement of highly creative and promising new scientists who intend to make a long-term career commitment to research in food and agriculture and bring innovative, ground-breaking research initiatives and thinking to bear on problems facing food and agriculture. NDSU may nominate one applicant.

Nominee Eligibility:

- Required: Hired on or after August 1, 2016 for a tenure-track or equivalent position.
- Preference: Within 8 years of Ph.D. or equivalent degree.
Faculty with significant research experience prior to obtaining a faculty position will not be considered.
- This program is open to any discipline / program, but the nominee should be working in one of the FFAR Challenge Areas:
 - Advanced Animal Systems
 - Health-Agriculture Nexus
 - Next Generation Crops
 - Soil Health
 - Sustainable Water Management
 - Urban Food Systems

If you are eligible for this program and would like to be considered, please follow the process outlined below.

Friday, January 31, 2020: NDSU pre-applications are due to ndsu.researchdev@ndsu.edu by 5pm CT. Pre-applications should be prepared

as indicated below and emailed as a single pdf file to ndsu.researchdev@ndsu.edu. Following a review of pre-applications received, one nominee will be selected.

Pre-applications should include the following:

- Cover Sheet – include name, department, date of hire in a tenure-track or equivalent position, and applicable FFAR Challenge Area.
- Provide a brief description of your research program (300 words or less).
- Provide a brief statement on the innovative nature of your research / how you are outstanding in your field (500 words or less).
- Curriculum Vitae

^^

NEH: Fellowships

National Endowment for the Humanities (NEH) [Fellowships](#) are competitive awards granted to individual scholars pursuing projects that embody exceptional research, rigorous analysis, and clear writing. Applications must clearly articulate a project's value to humanities scholars, general audiences, or both.

Fellowships provide recipients time to conduct research or to produce books, monographs, peer-reviewed articles, e-books, digital materials, translations with annotations or a critical apparatus, or critical editions resulting from previous research. Projects may be at any stage of development.

NEH invites research applications from scholars in all disciplines, and it encourages submissions from independent scholars and junior scholars.

Applicants interested in research projects that are either born digital or require mainly digital expression and digital publication are encouraged to apply instead for [NEH-Mellon Fellowships for Digital Publication](#).

Application deadline: April 8, 2020

^^

NSF: Algorithms for Threat Detection

The Algorithms for Threat Detection (ATD) program [[NSF 20-531](#)] will support research projects to develop the next generation of mathematical and statistical algorithms for analysis of large spatiotemporal datasets with application to quantitative models of human dynamics. The program is a partnership between the Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) and the National Geospatial Intelligence Agency (NGA).

Proposal deadline: March 18, 2020



NSF: Enabling Discovery through GENomic Tools (EDGE)

The National Science Foundation (NSF) Enabling Discovery through GENomic Tools (EDGE) program [[NSF 20-532](#)] supports genomic research that addresses the mechanistic basis of complex traits in diverse organisms within the context (environmental, developmental, social, and/or genomic) in which they function. The EDGE program also continues to support the development of innovative tools, technologies, resources, and infrastructure that advance biological research focused on the identification of the causal mechanisms connecting genes and phenotypes. EDGE is designed to provide support for (1) the development of tools, approaches, and infrastructure aimed at testing cause and effect hypotheses between gene function and phenotypes in diverse plants, animals, microbes, viruses, or fungi for which these methods are presently unavailable, and (2) hypothesis-driven research that tests cause and effect relations between genotype(s) and phenotypes in non-model plants, animals, microbes, viruses, or fungi. These goals are essential to uncovering the rules that underlie genomes-to-phenomes relationships, an area relevant to Understanding the Rules of Life: Predicting Phenotype, one of the 10 Big Ideas for future NSF investment.

Proposals accepted anytime.



Agricultural Products Utilization Commission Grants Seminar

Are you doing research and development in agriculture? Do you want to learn more about the Agricultural Products Utilization Commission ([APUC](#)) and what it does?

This free class led by John Schneider, ND Department of Agriculture Marketing and Information Division Director, will cover APUC's grant application process, funding availability, fiscal agent responsibility, requirements for research grants, and new rules in effect following APUC's move to the ND Department of Agriculture.

Thursday, January 23, 2020

12:00pm-1:30pm

NDSU Technology Incubator

1854 NDSU Research Circle North

RSVP to Barb Villella: barb.villella@ndsutp.com.

^^

UND Center for Innovation Workshop: Proposal Prep for National Institutes of Health

The University of North Dakota (UND) Center for Innovation continues its partnership with SHARPHub as one of the five-state regions (North Dakota, South Dakota, Kansas, Oklahoma, Nebraska) to bring key resources to Life-Science Innovators. The next SBIR/STTR workshop series will focus on Proposal Prep and Commercialization for SBIR/STTR Funding which awards over \$3 billion in R&D funding annually to small businesses developing game-changing technologies.

In order to help with the application process, the UND Center for Innovation will host the Part 1 Workshop: Proposal Prep for National Institutes of Health (NIH). We highly encourage faculty, students, post docs, clinicians, and early stage life science companies to attend to learn more on how to plan for and develop a

competitive proposal, writing to meet the reviewers' expectations, common pitfalls, how to avoid them, and more. The workshop will be hosted at the UND Center for Innovation at the following date and time:

Thursday, January 23, 2020

8:30am-4:00pm

UND Center for Innovation Idea Lab

4200 James Ray Drive

Grand Forks, ND 58203

There will be a boxed lunch provided during the event as well.

Please register for this free event [here](#).

If you have any questions, feel free to contact Marisol Rodriguez at marisol@bbcetc.com.

^^

NDSU Core Biology Facility

The [NDSU Core Biology Facility \(CBF\)](#) assists researchers by providing equipment and resources that might not otherwise be accessible in 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).

During January and February, the CBF is offering a free training session per laboratory on the iBright FL1500. The iBright FL1500 is used to image, document, and quantify/analyze samples on gels and blots. This free training time will benefit laboratories that are interested in using the instrument. Contact Dr. Chevalier Plambeck (amber.chevalier@ndsu.edu, 701-231-5334) if you are interested in this training.

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.