

NDSU OFFICE OF
RESEARCH AND CREATIVE ACTIVITY

RCA UPDATE

October 4, 2021



NDSU Research Community:

“Firsts” seem to be unique in our world today. Our been there / done that mentality sometimes makes us jaded to the real beauty of taking a first step in our lives; trying a new job; or meeting and making connections with new people. Last Friday was my first official day at NDSU and it was a time to experience all of those firsts, all at once.

But I have to confess, I feel like day one was when NDSU announced I would be the next Vice President for Research and Creative Activity. I’ve been doing my best to hit the ground running, with phone calls, Zoom meetings and emails to start those important new relationships, to build my network and to learn as much as I can about the people, the places and the values of my new home. It has been exhilarating and meaningful and full of wonderful glimpses of how great of a place NDSU is and how deeply the people who work here care about each other and the people of North Dakota.

My name is Colleen Fitzgerald and I’m proud to be the vice president of research and creative activity at NDSU. I grew up in Tallahassee, Florida and moved west to New Orleans for college at Loyola University. I majored in French, but I used my time there to learn other languages, history, and literature. Then I got lucky and stumbled into the field of linguistics. I like to think of the work of linguists in the same way as biologists: they take living systems and break them down into their parts to discover how they connect with each other. Linguists do the much the same with language.

I went even further west to University of Arizona, where I focused on Indigenous languages, especially their sound systems, and did my dissertation work on Tohono O'odham, working collaboratively with members of the language community in southern Arizona. I've been working in the state of Texas for nineteen years. I've been a department head, I've spent four years as a program officer at the National Science Foundation, and most recently, I was associate vice president for research at Texas A&M University – Corpus Christi.

My office is on the north side of campus in R1 and I invite all of you to swing by if you're in the neighborhood. I will also be meeting with your groups on campus over the next few months. But if you see me out at Scheels or Hornbacher's, don't hesitate to introduce yourself. I'm eager to learn about your research endeavors, helping you make them as successful as they can be, and working to make sure that everyone knows NDSU is a true research powerhouse. Your success is our success. Our collective goal will be re-imagining and focusing research and creative activity at our land-grant university to capitalize on state, federal and private opportunities in our rapidly changing landscape. The listening sessions and meetings with stakeholders over the next few months are essential to how we will accomplish this, and I hope you and your colleagues will join us.

Oh, and GO BISON!

Colleen Fitzgerald

Vice President

Research and Creative Activity

Meet NDSU's New Faculty Members

Throughout the year, RCA will be highlighting new faculty in the weekly newsletter.

Full profiles are available on the [RCA website](#).

Seungmin Kang, PhD

Health, Nutrition, and Exercise Sciences

What are your primary research and scholarly interests?

My research focuses on examining the role of shared leadership on different human resource-related constructs and organizational outcomes in the context of Sport for Development and Peace (SDP) to help achieve desired social change goals of these nonprofit sport organizations.



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

I am originally from South Korea and I did my Ph.D. at Louisiana State University.

What excites you about NDSU?

I am excited about the department's plan to develop the sport management program as well as its research-oriented environment.

What motivates you?

I am motivated by a sense of achievement. I set small goals whatever they are and the process of achieving them makes me move forward.

[See Seungmin's Profile >>](#)

New Templates for NSF Proposals Required Beginning October 4, 2021

The new National Science Foundation (NSF) Proposal and Award Policies and Procedures Guide (PAPPG), [NSF 22-1](#), takes effect October 4, 2021.

Significant changes in this edition include:

- the section on **Biographical Sketches** has been revised to increase the page limit for biographical sketches to three pages. An updated PDF template is available for download from the [NSF Biographical Sketch webpage](#), and a revised template is also available in SciENCv.
- the section on **Current and Pending Support** has been updated to **require that information on objectives and overlap with other projects be provided**, to help NSF and reviewers assess overlap / duplication. An updated PDF template is available for download from the [NSF Current and Pending Support webpage](#), and a revised template is also available in SciENCv.
 - NSF has also implemented updates so that FastLane will automatically trim excess (blank) pages from the fillable PDF upon upload; Research.gov will have this functionality beginning October 4, 2021.
- When completing both the biographical sketch and the Current and Pending Support document, reference NSF's newly developed guide: [NSF Pre-award and Post-award Disclosures](#).

Use of these updated templates will be required for proposals submitted on or after October 4, 2021.

[See the full list of changes in the new PAPPG >>](#)



Replay of Research Symposium on Mental Health Now Available

A replay of the event, sponsored by the NDSU President's Council for Campus Well-being (PCCW) and the Office of Research and Creative Activity (RCA), is now available. The event was held on Friday, September 24, 2021. Learn more, view the recording, and download the abstract book [here](#).

Upcoming Workshops and Events

- **NSF Virtual Grants Conference**
October 4-8, 2021 / [Learn more >>](#)
 - **Foundation for Food & Agriculture Research Annual Public Conversation**
October 7, 2021 / [Learn more >>](#)
 - **NDSU Science Café - October**
October 12, 2021 / [Learn more >>](#)
 - **NIH Virtual Grants Conference**
November 1-4, 2021 / [Learn more >>](#)
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Upcoming Limited Submission Program Deadlines

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. Email notifications of interest to ndsu.researchdev@ndsu.edu.

If you identify a limited submission opportunity that is not on the list below, please notify ndsu.researchdev@ndsu.edu.

- NIH: Modern Equipment for Shared-use Biomedical Research Facilities

Notification Deadline: 10/12/2021

- NSF: Partnerships for Innovation

Notification Deadline: 10/20/2021

There are a number of limited submission grant programs with upcoming agency deadlines for which we did not receive any notifications of interest. A full list of those programs is available on the Limited Submissions page. For these programs, marked "First to Notify," approval to move forward with a full proposal submission to the funder will be given on a first come, first served basis. Email notifications of interest to ndsu.researchdev@ndsu.edu.

Looking for more funding opportunities?



RCA subscribes to SPIN by InfoEd Global, a database of more than 40,000 funding opportunities. Through this subscription, SPIN is free for current NDSU faculty, staff, and students.

For more information and to access this database, visit the [SPIN page](#) on the RCA website. If you have questions, please contact ndsu.researchdev@ndsu.edu.

DARPA: Young Faculty Award

The objective of the Defense Advanced Research Projects Agency (DARPA) Young Faculty Award ([YFA](#)) program is to identify and engage rising stars in junior research positions,

emphasizing those without prior DARPA funding, and expose them to DoD needs and DARPA's program development process.

The YFA program provides funding, mentoring and industry and DoD contacts to awardees early in their careers so they may develop their research ideas in the context of national security needs. The long-term goal of the YFA program is to develop the next generation of academic scientists, engineers, and mathematicians who will focus a significant portion of their career on DoD and National Security issues.

Executive Summary Deadline: November 4, 2021

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DoD: Extramural Medical Research

The mission of the United States Army Medical Research and Development Command (USAMRDC) is to provide solutions to medical problems of importance to the American Service Member at home and abroad, as well as to the general public at large. The scope of this effort and the priorities attached to specific projects are influenced by changes in military and civilian medical science and technology (S&T), operational requirements, military threat assessments, and national defense strategies. Extramural research and development programs play a vital role in the fulfillment of the objectives established by the USAMRDC. General information on the USAMRDC can be obtained at <https://mrdc.amedd.army.mil/index.cfm>.

Research Programs in this Broad Agency Announcement (BAA) [[W81XWH18SBAA1](#)] include:

- Military Infectious Diseases;
- Combat Casualty Care;
- Military Operational Medicine;
- Medical Biological Defense;
- Medical Chemical Defense; and
- Radiation Health Effects.

This opportunity is open through September 30, 2022

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EPA: Environmental Education Local Grants Program for Region 8

The purpose of the Environmental Education Local Grants Program in Region 8 [[EPA-EE-21-08](#)] is to support locally-focused environmental education projects that increase public awareness and knowledge about environmental issues and provide the skills that participants in its funded projects need to make informed decisions and take responsible actions toward the environment. Proposed projects must incorporate at least one of EPA's educational priorities and at least one of EPA's environmental priorities.

EPA's Educational Priorities:

1. Community Projects
2. Career Development
3. Environmental Education Capacity Building
4. Environmental Justice

EPA's Environmental Priorities:

1. Addressing Climate Change and Improving Air Quality
2. Ensuring Clean and Safe Water
3. Cleaning Up our Communities by Revitalizing Land and Preventing Contamination

Cost-Sharing is required.

Deadline: December 6, 2021

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FDA: Innovation Award: COVID-19 and Health Equity (U01) Clinical Trials Optional

The purpose of this funding opportunity announcement (FOA) [[RFA-FD-22-003](#)] is to fund innovative research that will strengthen and advance COVID-19 health equity research.

Areas of interest include:

- Proposals that focus on advancing racial and ethnic minority participation in COVID-19 / COVID-19 variant clinical trials and / or contribute to informing the continued evaluation of the safety and efficacy of FDA approved products

(therapeutics, diagnostics, and vaccines) or products subject to EUAs / EUA expansion for the treatment, prevention, or diagnosis of COVID-19.

- Proposals that support the evaluation of outcomes by demographic data including, but not limited to, ethnicity, race, age, disability, and geography.
- Proposals that support COVID-19 research to understand diverse patient perspectives, preferences, and unmet needs.

Letter of Intent deadline: November 2, 2021

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NEA: Creative Forces – Connecting Communities and Military

Creative Forces seeks to improve the health, well-being, and quality of life for military service members and veterans exposed to trauma, as well as their families and caregivers, by increasing knowledge of and access to clinical creative arts therapies and community arts engagement. These [Creative Forces Community Engagement Grants](#), a joint program from the National Endowment for the Arts (NEA) and the Mid-America Arts Alliance (M-AAA), are intended to support non-clinical arts engagement programs taking place in healthcare, community, or virtual settings. Creative Forces-supported community programs have involved a range of arts activities, including visual, written, and performing arts offered through single events, drop-in programs, and ongoing engagement led by artists in residence, teaching artists, or creative arts therapists.

Matching grant awards of \$10,000–\$50,000 will be awarded to approximately 35 applicants to support projects that engage targeted military-connected individuals through experiences of art or art-making. Creative Forces Community Engagement Grant Program projects should engage military-connected individuals through experiences of art or art-making with one or more of the following participant outcomes in mind:

- Creative Expression: Participants have a better understanding of themselves and others by creating or engaging with art.
- Social Connectedness: Participants have supportive relationships in their life and a sense of belonging to a community.
- Resilience: Participants feel they can rebound from stress, unexpected events, or life's challenges.

- Independence and successful adaptation to civilian life: Participants have both an individual and shared sense of purpose, as well a positive self-worth, that supports adapting and readjusting to civilian life.

This grant program also seeks to advance the capacity of the applicant and its partner(s) in one or more of the following ways:

- Networked Organization: Grantees build networks and partnerships that support the design, implementation, and evaluation of programs for participants leading to stronger outcomes for participants.
- Strengthened Capacity: Grantees build their capacity to design, implement, and evaluate programs that meet the need of participants
- Increased Value of the Arts: Grantee partnerships and activities lead to an increased understanding of the value and impact of the arts across local participating networks and communities.

Deadline: December 15, 2021

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NIH: Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations (R24 Clinical Trials Not Allowed) – 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.

NIH Equipment : Notify RCA by 10/12/2021, 5:00 p.m. if you are interested in submitting to this program.

This Funding Opportunity Announcement (FOA) [PAR-21-326] invites qualified academic or research institutions to apply for support to purchase and install

advanced equipment to enhance and modernize research-supporting operations of biomedical research facilities. Targeted are core facilities, animal research facilities, and other research spaces that are used on a shared basis. The goal of this FOA is to strengthen research-auxiliary activities of biomedical research facilities and to enhance the efficacy of their operation. To ensure proper installation and functioning of the equipment, minor alteration and renovation (A&R) efforts can be included as a small component of the budget.

All applicants are strongly encouraged to reach out to the Scientific / Research Contact(s) before submission of an application to discuss the equipment requests and eligibility criteria.

LIMITED SUBMISSION: Only one application per institution is allowed.

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NSF / NIH / USDA: Ecology and Evolution of Infectious Diseases

The multi-agency Ecology and Evolution of Infectious Diseases program [[NSF 21-609](#)] supports research on the ecological, evolutionary, organismal, and social drivers that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be the quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease (re)emergence and transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of (re)emergence and transmission among any host species, including but not limited to humans, non-human animals, and / or plants. This includes, for example, the spread of pathogens; the influence of environmental factors such as climate; the population dynamics and genetics of vectors and reservoir species or hosts; how the physiology or behavior of the pathogen, vector, or host species biology affects transmission dynamics; the feedback between ecological transmission and evolutionary dynamics; and the cultural, social, behavioral, and economic dimensions of pathogen transmission and disease. Research may be on zoonotic, environmentally-borne, vector-borne, enteric, or respiratory pathogens of either terrestrial or aquatic systems and

organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems. Proposals for research on disease systems of public health concern to Low- or Middle-Income Countries (LMICs) are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, anthropologists, modelers, ecologists, bioinformaticians, genomics researchers, social scientists, economists, oceanographers, mathematical scientists, behaviorists, epidemiologists, evolutionary biologists, entomologists, immunologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases.

Deadline: November 24, 2021

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NSF: Advancing Informal STEM Learning

The Advancing Informal STEM Learning (AISL) program [[NSF 21-599](#)] seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning opportunities for the public in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and engage the public of all ages in learning STEM in informal environments.

The AISL program supports six types of projects:

1. Pilots and Feasibility Studies,
2. Research in Service to Practice,
3. Innovations in Development,
4. Broad Implementation,
5. Literature Reviews, Syntheses, or Meta-Analyses, and
6. Conferences.

Deadline: January 18, 2021

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NSF-DCL: Critical Aspects of Sustainability (CAS): Innovative Solutions to Climate Change

This [Dear Colleague Letter \(DCL\)](#) encourages the science and engineering communities to develop forward-thinking research that will demonstrably aid in the Nation's goal of reaching net-zero greenhouse gas (GHG) emissions and developing approaches for adapting to the change that is already occurring. This DCL encourages the submission of conference (workshop), GOALI, or standard research proposals to appropriate existing NSF core programs to lay the foundation for disciplinary and interdisciplinary research on innovative solutions to climate change. NSF's SBIR and STTR Programs also seek proposals in this area as a way of kickstarting small businesses with deep technical solutions to climate change. The Division of Chemistry (CHE) and the Division of Earth Sciences (EAR) are also interested in supporting high-risk, high-reward EARly-concept Grants for Exploratory Research (EAGER) and Research Advanced by Interdisciplinary Science and Engineering (RAISE) proposals.

Potential topics include:

- Reducing Greenhouse Gas (GHG) Emissions and Energy Use
- Energy Innovations Relevant to Climate Change Mitigation
- Enhancing GHG Sequestration
- Accelerating Strategies for Climate Change Adaptation
- Research Addressing Synergistic Topics

Prospective principal investigators must send an email inquiry to cas@nsf.gov prior to submission to ascertain whether the proposal is suitable for CAS: Innovative Solutions to Climate Change DCL and for the specific program or programs in one of the participating divisions or offices.

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NSF-DCL: Enabling Secure and Trustworthy Cyberspace (SaTC) CISE-SBE Interdisciplinary Collaborations

The National Science Foundation's (NSF) Secure and Trustworthy Cyberspace (SaTC) program aims to promote research on the fundamentals of security, privacy, and trustworthy cyberspace as a multidisciplinary subject that will lead to new knowledge and

approaches to design, build, and operate cyber systems, protect persons, organizations, and existing infrastructure, and motivate and educate individuals about cybersecurity and privacy. With this [Dear Colleague Letter \(DCL\)](#), NSF is announcing its intention to encourage the submission of EARly-Concept Grants for Exploratory Research (EAGER) proposals that will foster novel, excellent interdisciplinary research in the SaTC domain to be carried out in collaborations between one or more Computer and Information Science and Engineering (CISE) researchers and one or more Social, Behavioral, and Economic Sciences (SBE) researchers.

Deadline: December 10, 2021



RWJF: Healthy Eating Research: COVID-19 and Socioeconomic Recovery Efforts

This [Call for Proposals](#) (CFP) aims to fund research on how COVID-19-related relief and recovery policies and programs impact child health and well-being.

Healthy Eating Research (HER) is interested in understanding how social and economic programs and policies related to poverty reduction—such as financial payments to families, income assistance programs, housing assistance or housing security programs, and increased access to social services—impact child obesity, diet quality, food security, and other relevant child and family health outcomes among lower-income and families of color.

Studies must focus on children and families in the United States, with high priority on those who are at highest risk for poor nutrition and obesity, specifically lower-income families and racially and ethnically diverse populations (e.g., Black, Latinx, American Indian / Alaska Native, Asian American, Native Hawaiian, and Pacific Islander). Evidence generated through this special solicitation should be timely and policy-relevant, and aimed towards identifying equitable policies and programs.

Grants will be awarded up to a maximum of \$250,000 and 18 months in duration.

Concept Paper Deadline: November 17, 2021; 2:00pm



Sanford Center for Biobehavioral Research: COBRE Pilot Projects

The Sanford Center for Biobehavioral Research recently received a Center of Biomedical Research Excellence Grant (CoBRE) from the National Institutes of Health focused on eating disorders and obesity. North Dakota State University (NDSU) and the University of North Dakota (UND) are partners in this program.

As part of this award, the CoBRE is sponsoring a [Pilot Projects Program](#). This program is open to staff and faculty from Sanford, NDSU, and UND. The goal is to provide scientists and clinicians with the opportunity to conduct pilot studies which can ultimately lead to broader scientific investigations in the areas of eating disorders and obesity. Topics of interest include, but are not limited to:

- risk factors or predictors of eating disorder behavior;
- illness-related mechanisms for onset and maintenance of eating disorders;
- intervention-related mechanisms regarding treatment or prevention of eating disorders;
- factors that moderate the influence of risk factors or mechanism of eating disorder behavior;
- the prevalence of eating disordered behaviors in different populations; and
- the association between eating disordered behaviors and other health-related behaviors.

Two \$50,000 awards will be made this year. If you have any questions about the pilot project program, please reach out to Kathryn Bentley, RN, the Research Project Manager for Pilot Projects at Kathryn.Bentley@SanfordHealth.org or [\(701\) 365-4916](tel:(701)365-4916).

Letter of Intent Deadline: October 15, 2021

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NSF Virtual Grants Conference

October 4-8, 2021

The National Science Foundation (NSF) Fall 2021 NSF Virtual Grants Conference will be held during the week of October 4-8, 2021.

Registration is now open. Sessions include:

- New programs and initiatives;
- NSF directorate sessions;

- Future directions and strategies for national science policy;
- Proposal preparation;
- NSF's merit review process; and
- Conflict of interest policies.

For more information and to register, visit <https://nsfpolicyoutreach.com/>. If you have any logistical questions about this virtual conference, please contact: grants_conference@nsf.gov.

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Foundation for Food & Agriculture Research: Public Conversation

October 7, 2021 | 11:30am

The [Foundation for Food & Agriculture Research's](#) (FFAR) Board of Directors is hosting the Foundation's seventh annual [Public Conversation](#) virtually on **Thursday, October 7, 2021** at 12:30 pm EDT. The public conversation is an opportunity to hear from FFAR's leadership and includes a Q&A-style forum for the public to address the FFAR Board. FFAR's Board Chairman and Mississippi State University President [Dr. Mark Keenum](#) and Executive Director [Dr. Sally Rockey](#) will discuss recent achievements, upcoming changes and new opportunities. Attendees will have a chance to address FFAR's leadership during the forum.

Please [register](#) for the 2021 Public Conversation. Registered participants will receive the Zoom webinar link the week of the event.

This event is free and open to the public.

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NDSU Science Café - October

October 12, 2021 | 7:00pm

Monthly Science Café events are organized by the NDSU College of Science and Mathematics. The topic of the next Science Café is "A Brush with Quantum Computing," presented by Dane Skow, Executive Director, NDSU Center for Computationally Assisted Science and Technology. This session will take place at 7pm on Tuesday, October 12, 2021, at Wild Terra Cider, located at 6 12th Street North in Fargo. [Learn more >>](#)

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NIH Virtual Grants Seminar

November 1-4, 2021

The National Institutes of Health Virtual Seminar on Grants Administration and Program Funding will be held November 1-4, 2021.

Registration is now open. The seminar will include opportunities to:

- learn about NIH grant processes, policies, and programs;
- interact with NIH program, grants management, review, and policy staff;
- gather resources to use and share with colleagues;
- engage and network with your peers; and
- meet 1:1 with NIH experts.

For more information and to register, visit <https://nihvirtualseminar2021.vfairs.com/>. If you have questions about this virtual conference, please contact:

NIHRegionalSeminars@nih.gov.

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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.

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