

RCA UPDATE

February 7, 2022

NDSU Student Research Day set for April 19, 2022



The one-day event will provide NDSU graduate and undergraduate students with an opportunity to present their research in a showcase of both oral and poster presentations. All student researchers are welcome to participate, and registration is now open.

NDSU Student Research Day is a collaboration among NDSU EXPLORE, Gamma Sigma Delta, and the Graduate Student Council. The new collaborative event reduces redundancy in areas such as event planning and judging while allowing each group to maintain unique aspects of their event such as awards and recognition.

The NDSU Graduate Student Council (GSC) has hosted an annual research symposium for graduate students across all disciplines to present their research. NDSU engineering graduate student and GSC president Raihan Quader noted how important the new event will be to research at NDSU. "The initiative by the Office of Research and Creative Activity to collaborate with Gamma Sigma Delta and Graduate Student Council to make this event happen was visionary. NDSU Student Research Day will demonstrate undergraduate and graduate student research caliber to the surrounding community and will probably help bring in more research funding to NDSU in future."

Gamma Sigma Delta (GSD) is an agricultural honor society that encourages and rewards excellence in agriculture. The NDSU chapter has previously hosted an annual symposium for undergraduate and graduate student presentations. Rebekah Oliver, associate professor of

practice in plant sciences and NDSU GSC chapter president added, "Gamma Sigma Delta is excited to collaborate on this celebration of student research. Our students are doing research that makes a difference – a difference in their own lives as they develop into future scientists, but also a difference that impacts the lives of people far beyond campus."

The NDSU Office of Research and Creative Activity (RCA) is responsible for NDSU EXPLORE, an annual showcase providing all undergraduate students the opportunity to present their research. Sheri Anderson, associate vice president of research development in RCA commented, "It has been a great experience planning this event with faculty and student members of Gamma Sigma Delta and the Graduate Student Council. We look forward to showcasing the amazing work NDSU students have been doing throughout the year". All three events will occur on NDSU Student Research Day.

More information about NDSU Student Research Day is [available](#) on the RCA website.



Registration for Student Research Day is Open!

The deadline to register is March 22, 2022.

[Learn More and Register](#)

Arts & Humanities Grant Sessions

The Office of Research and Creative Activity is hosting Jesse Johnston, PhD, an experienced grantmaker and advisor to researchers in the humanities and arts. As a senior program officer for preservation and access at the National Endowment for the Humanities (NEH), he advised hundreds of projects in higher education, libraries, archives, and community-focused cultural heritage organizations. Jesse also led NEH's major initiative to support community archiving activities (from 2015 to 2017) and also coordinated programs that supported training in preservation and conservation for humanities collections.



Grants and Fellowships in the Arts & Humanities: Research Enhancement Opportunities and Strategies

Wednesday, February 9, 2022 | 11:00-12:00

This presentation will provide an overview of major types of funding available that can support and enhance arts and humanities research. Johnston will discuss tips for researching funding opportunities, planning projects and proposals, and an overview of the review and decision-making processes for awarding grants. Although specific in many ways to federal grants offered by the “cultural” agencies of the U.S. federal government—namely the NEH, the NEA, and IMLS—the general approaches discussed here will also be informative to anyone aiming to learn about the grant process, planning to apply for grants, or currently preparing applications. An opportunity for Q&A will follow the presentation.

Approaching Funding Opportunities at the NEH

Thursday, February 10, 2022 | 11:00-12:00

This presentation will focus on the range of funding programs offered by the National Endowment for the Humanities (NEH), including current funding streams in the NEH's research division, education and public programming, preservation, and digital humanities. Johnston will note recent examples of projects funded in specific humanities disciplines to illustrate how each of these areas supports humanities-focused research, education, and inquiry; he also will offer examples of how collaboration and interdisciplinarity have been supported in these grants, and discuss the review process and criteria for specific programs. An opportunity for Q&A will follow the presentation.

Both sessions will be available both in-person and by Zoom. For in-person attendees, masks will be required.

[**Register to Participate >>**](#)

Applications Open: NDSU Summer Undergraduate Biomedical Research Program

NDSU is offering a summer undergraduate research program featuring the opportunity to study biomedical research within a variety of science and engineering fields. This program is open to undergraduate students who are currently enrolled in a degree program at a North Dakota college or university and who will not graduate before December 2022.

The program will run for 10 weeks from May 31 to August 5. Student researchers selected for a project are expected to work 40 hours per week and will be paid \$15/hour.

[**Learn more >>**](#)

Graduate Assistant Sought

The Graduate Assistant will directly assist the Office of Research and Creative Activity (RCA) in the areas of research and data collection, writing non-technical short documents (including possibly boilerplate documents for grant proposals), event assistance (including publicity, setting up virtual or hybrid events on zoom for presenters, etc.), correspondence with departments on campus, and outreach to off campus entities as well as other duties as needed.

This position is 20 hours per week for the 2022 spring semester. Work hours will be 4 hours per day, Monday – Friday with some flexibility. Possibility of summer and / or fall employment. The appointment begins immediately.

[**Learn more >>**](#)



Congratulations to all award recipients from December!

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 >>](#)

Upcoming Events and Deadlines

- **Webinars on Working with Industry: Bayer Crop Science, Joyn Bio, Sonoco**
February 15, 16, 17, 2022 / [Learn more >>](#)
- **University-Industry Partnerships Webinar Series**
Begins February 2022 / [Learn more >>](#)
- **Agriculture Utilization Research Institute: New Uses Forum**
March 23-24, 2022 / [Learn more >>](#)
- **Application Deadline: Summer Institute in Computational Social Science**
March 25, 2022 / [Learn more >>](#)
- **Workshop: University-Industry Partnerships in the Social Sciences**
April 20-21, 2022 / [Learn more >>](#)

FUNDING OPPORTUNITIES

- [FFAR: Seeding Solutions](#)
- [Housing and Urban Development: Unsolicited Proposals for Research Partnerships](#)
- [Medica Foundation: Behavioral Health and Early Childhood Health](#)
- [NEH: Humanities Initiatives at Colleges and Universities](#)
- [NIH: Summer Research Education Experience Program](#)
- [NSF: Emerging Frontiers in Research and Innovation](#)
- [NSF: Environmental Biology](#)
- [Spencer Foundation: Small Research Grants on Education](#)

- [USDA-NIFA: Higher Education Multicultural Scholars Program](#) – LIMITED
- [USDA-NIFA: Rural Health and Safety Education](#) – LIMITED
- [USDA-NIFA: Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom](#) – LIMITED

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.

- [NEA: Challenge America](#)
Notification Deadline: 02/10/2022
- [Breast Cancer Alliance: Exceptional Project Grants](#)
Notification Deadline: 02/15/2022
- [USDA: Rural Health and Safety Education](#)
Notification Deadline: 02/16/2022

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.

FFAR: Seeding Solutions

The [Foundation for Food & Agriculture Research](#) (FFAR) is now accepting pre-proposal applications for the 2022 cycle of [Seeding Solutions](#), an annual competitive grant program that supports research to solve urgent issues in any of FFAR's [Challenge Areas](#). This year, in addition to accepting pre-proposal applications that align with the Challenge Areas, the Foundation is also seeking applications for [AgMission](#), an unprecedented initiative mobilizing farmers, ranchers, scientists, data providers, stakeholders and funders to develop and implement scalable climate-smart solutions.

Through the 2022 Seeding Solutions program, FFAR is awarding approximately \$10 million in grants. Individual awards will range from \$300,000 to \$1 million for approximately ten awards.

Seeding Solutions grantees are required to provide matching funds from non-federal sources and identify an innovation that advances sustainable food and agriculture research within one of FFAR's Challenge Areas or AgMission. Successful applications will demonstrate commitment to cross-sector partnerships and serve the public by making data open and accessible.

Pre-proposal deadline: March 9, 2022



Housing and Urban Development: Unsolicited Proposals for Research Partnerships

The Department of Housing and Urban Development (HUD) is accepting research proposals that address current research priorities [[FR-6500-N-USP](#)]. HUD is interested in research that will help the Department support underserved communities and advance equity. Examples of topics for research include:

- promoting self-sufficiency and economic opportunity;
- enhancing rental assistance;
- reducing homelessness;
- supporting sustainable homeownership and financial viability;
- controlling lead hazards and other hazards in homes;
- providing effective and equitable disaster recovery;
- opportunity zones;
- reducing barriers to affordable housing;
- Fair Housing Act;
- equity and impact of the Rental Assistance Demonstration;
- accessibility in the HCV program; and
- climate resilience, environmental justice, and energy efficiency across the housing sector.

This program requires matching funds.

Proposals may be submitted at any time and will be evaluated as they are received. Available funds will be awarded as proposals are received, evaluated, and approved, until funds are exhausted. This opportunity expires June 30, 2022.

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Medica Foundation: Behavioral Health and Early Childhood Health

The [Medica Foundation](#) is focused on promoting systemic improvements in health outcomes. They fund organizations located in and providing services in the states and Native Nations of Minnesota, North Dakota, South Dakota, and parts of Wisconsin.

Priority will be given to programs that

- support community-led initiatives;
- have a high likelihood of improved health through sustainable impact;
- address community issues and promote equitable solutions to reduce health disparities; and

- build partnerships and collaborations within the community.

The [Behavioral Health](#) program seeks proposals for new or expanding programs that provide support for people of all ages around serious mental illness and chemical addiction recovery. This includes programs that support people with gaps in current service, integrate physical and mental health care, address co-occurring disorders, attend to the mental health needs of children experiencing homelessness, and provide supportive and intensive case management services.

Deadline: April 1, 2022

The [Early Childhood Health](#) program seeks proposals for new or expanding early intervention programs that focus on developing healthy families to foster optimal growth and development of young children. Programs should embrace the needs of the whole-child / whole-family and may incorporate the health and wellbeing components of the two-generation approach that is central to supporting children and parents simultaneously.

Deadline: April 29, 2022

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NEH: Humanities Initiatives at Colleges and Universities

[Humanities Initiatives at Colleges and Universities](#) strengthen the teaching and study of the humanities at institutions of higher education by developing new humanities programs, resources (including those in digital format), or courses, or by enhancing existing ones.

Projects must be organized around a core topic or set of themes drawn from such areas of study in the humanities as history, philosophy, religion, literature, and composition and writing skills.

NEH welcomes applications for projects that are modest in scope, duration, and budget, as well as applications for expansive, long-term projects.

Optional draft deadline: March 28, 2022

Full application deadline: May 9, 2022

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NIH: Summer Research Education Experience Program

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that complement and / or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs.

The proposed program needs to align with the mission of the Institute / Center (IC) to which the application is submitted and not have a general STEM focus. For the specific ICs, the following represents mission focus areas:

- **The National Institute on Alcohol Abuse and Alcoholism (NIAAA)** broadly encourages research that focuses on the following 5 goals: (1) identifying the mechanism of; (2) improve diagnosis and tracking of; (3) develop and improve strategies to prevent; and (4) develop and improve treatments for alcohol misuse, alcohol use disorder and alcohol-related consequences; and (5) enhance the public health impact of NIAAA-supported research.
- **The National Institute of Biomedical Imaging and Bioengineering (NIBIB)** will support applications focusing on summer research experiences broadly in the areas of biomedical imaging, bioengineering, or health informatics. NIBIB will only support programs for high school science teachers and community college faculty from STEM-related departments, and not for students.
- **The National Institute on Drug Abuse (NIDA)** will support applications focusing on identifying the biological environmental, behavioral, and social causes and consequences of drug use and addiction across the lifespan, including research in basic science.
- **The National Institute of Environmental Health Sciences (NIEHS)** will support applications focusing on summer research experiences in the environmental health sciences.
- **The National Institute of Neurological Disorders and Stroke (NINDS)** will support applications focusing on summer research experiences that address or seek fundamental knowledge about the brain and nervous system by supporting and conducting research on the healthy and diseased brain, spinal cord, and peripheral nerves and to use that knowledge to reduce the burden of neurological disease.

Deadline: March 17, 2022; March 17, 2023

NSF: Emerging Frontiers in Research and Innovation

The Emerging Frontiers in Research and Innovation (EFRI) program [[NSF 21-615](#)] of the NSF Directorate for Engineering (ENG) serves a critical role in helping ENG focus on important emerging areas in a timely manner. This solicitation is a funding opportunity for interdisciplinary teams of researchers to embark on rapidly advancing frontiers of fundamental engineering research. For this solicitation, NSF will consider proposals that aim to investigate emerging frontiers in one of the following two research areas:

- **Engineered Living Systems (ELiS)**
- **Brain-Inspired Dynamics for Engineering Energy-Efficient Circuits and Artificial Intelligence (BRAID)**

This solicitation will be coordinated with the Directorate for Biological Sciences (BIO), the Directorate for Computer and Information Science and Engineering (CISE), the Directorate for Mathematical and Physical Sciences (MPS), the Directorate for Geosciences (GEO), and the Directorate for Social, Behavioral and Economic Sciences (SBE), along with Air Force Office of Scientific Research (AFOSR), Department of Defense - Defense Threat Reduction Agency (DTRA), and National Aeronautics and Space Administration (NASA).

EFRI seeks proposals with potentially transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long term impact on national needs or a grand challenge. The proposals must also meet the detailed requirements delineated in this solicitation.

Letter of Intent deadline: September 12, 2022

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NSF: Environmental Biology

The Division of Environmental Biology (DEB) Core [[NSF 22-541](#)] supports research and training on evolutionary and ecological processes acting at the level of populations, species, communities, and ecosystems. DEB encourages research that elucidates fundamental principles that identify and explain the unity and diversity of life and its interactions with the environment over space and time. Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving

analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Science, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Science). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales.

Full proposals accepted anytime.

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Spencer Foundation: Small Research Grants on Education

The [Small Research Grants Program](#) supports education research projects that will contribute to the improvement of education, broadly conceived, with budgets up to \$50,000 for projects ranging from one to five years. Applications are accepted three times per year.

This program is “field-initiated” in that proposal submissions are not in response to a specific request for a particular research topic, discipline, design, method, or location. The goal of this program is to support rigorous, intellectually ambitious and technically sound research that is relevant to the most pressing questions and compelling opportunities in education.

Deadline: April 12, 2022; noon

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USDA-NIFA: Higher Education Multicultural Scholars Program (MSP) - 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.

USDA MSP : The agency deadline for this program is March 23, 2022. [Notify RCA](#) if

you are interested in submitting to this program; approval to submit will be given to the first to notify.

The purpose of this competitive undergraduate scholarship grant [program](#) is to increase the multicultural diversity of the food and agricultural scientific and professional workforce, and advance the educational achievement of all Americans by providing competitive grants to colleges and universities.

LIMITED SUBMISSION: One application is allowed.

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USDA-NIFA: Rural Health and Safety Education Competitive Grants Program – 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.

USDA RHSE : [Notify RCA](#) by February 16, 5:00p.m., if you are interested in submitting to this program.

The Rural Health and Safety Education ([RHSE](#)) program proposals are expected to be community-based outreach education programs, such as those conducted through Human Science extension outreach that provide individuals and families with: information as to the value of good health at any age; information to increase individual or family's motivation to take more responsibility for their own health; information regarding rural environmental health issues that directly impact human health; information about and access to health promotion and educational activities; and training for volunteers and health services providers concerning health promotion and health care services for individuals and families in

cooperation with state, local, and community partners.

LIMITED SUBMISSION: One application is allowed.

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USDA-NIFA: Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program (SPECA) – 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.

USDA SPECA : The agency deadline for this program is April 6, 2022. Notify RCA if you are interested in submitting to this program; approval to submit will be given to the first to notify.

The Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants (SPECA) program seeks to:

- a. promote and strengthen secondary education and two-year postsecondary education in the food and agriculture sciences in order to help ensure the existence of a workforce in the United States that's qualified to serve the food and agriculture sciences system; and
- b. promote complementary and synergistic linkages among secondary, two-year postsecondary, and higher education programs in the food and agriculture sciences in order to advance excellence in education and encourage more young Americans to pursue and complete a baccalaureate or higher degree in the food and agriculture sciences.

LIMITED SUBMISSION: One application is allowed.

Webinars on Working with Industry: Bayer Crop Science, Joyn Bio, Sonoco February 15, 26, 17, 2022

[Halo](#) is a technology platform and network where scientific innovators connect directly with companies for research collaborations and funding opportunities. They are offering a series of webinars to discuss opportunities to work with industry.

- **Bayer Crop Science: Testing4Ag: Novel compounds for early biological screen cascades**
February 15, 2022 | 8am, 12pm, and 8pm
[Learn more and register >>](#)
- **Joyn Bio: Plant-associated microbes for crop care**
February 16, 2022 | 10am
[Learn more and register >>](#)
- **Sonoco: Recyclable materials with vapor barriers for paper-based food packaging / Additive for PET to improve chilled / frozen impact strength**
February 17, 2022 | 12pm
[Learn more and register >>](#)

University-Industry Partnerships Webinar Series February-April 2022

This ten-part webinar series, [Robust Collaborations: Insights for Researchers](#), shares foundational training for researchers in university and industry settings for success in university-industry collaboration. These webinars are free to access if you use your ndsu.edu email address to register.

- **February 10:** Views from Academic and Corporate Leadership on U-I Partnerships
- **February 17:** Establishing Contacts with Industry and Academia
- **February 24:** Managing Expectations and Creating Long Term Relationships
- **March 3:** Basic Budgeting Strategies for Industry Agreements

- **March 10:** Opportunities and Challenges of Engaging Students in Industry Sponsored Research
- **March 17:** Contracting and Compliance
- **March 24:** Managing Intellectual Property Issues
- **April 7:** Government Increased Interest in U-I Collaborations
- **April 14:** Ask Me Anything Session

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Agriculture Utilization Research Institute: New Uses Forum

March 23-24, 2022 | Minneapolis, MN

The Agriculture Utilization Research Institute ([AURI](#)) and its partners, Compeer Financial and Georgetown University's Rural Opportunity Initiative, invite you to save the date for the 4th New Uses Forum. The event will be held in Minneapolis on March 23rd - 24th, 2022.

The 2-day forum will feature talented speakers with in-depth knowledge and real-world experience in areas related to entrepreneurship, innovation, development and investment in the food and agriculture sector.

The New Uses Forum will be a hybrid event with in-person and virtual options. Please watch for more information as it becomes available.

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Application Deadline

Summer Institute in Computational Social Science

March 25, 2022

The Summer Institutes, available at no cost to participants, bring together graduate students, postdoctoral researchers, and beginning faculty interested in computational social science for one to two weeks of intensive study and collaborative research that challenges disciplinary boundaries. NDSU is a partner institution for the 2022 institutes, and the NDSU Summer Institute in Computational Social Science will take place June 19-30, 2022.

[Learn more and apply >>](#)

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Workshop: University-Industry Partnerships in the Social Sciences

April 20-21, 2022 | College Park, MD

The **University of Maryland, College Park**, in partnership with [UIDP](#) and with support from the [National Science Foundation](#), as well as [MITRE](#), [Optimal Solutions Group](#), [SAGE Publishing](#), the [Consortium of Social Science Associations](#), and the [Federation of Associations in Behavioral & Brain Sciences](#), is **hosting this workshop April 20-21, 2022, at The Hotel at the University of Maryland**. Join experts and leaders from academia, industry, and government to consider how academic-corporate partnerships can advance social, behavioral, and organizational science research to positively impact science and society. This event will complement the virtual workshop held on October 14, 2021 ([see recording and materials](#)).

[Learn more and register >>](#)

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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.

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.

We collectively acknowledge that we gather at NDSU, a land grant institution, on the traditional lands of the Oceti Sakowin (Dakota, Lakota, Nakoda) and Anishinaabe Peoples in addition to many diverse Indigenous Peoples still connected to these lands. We honor with gratitude Mother Earth and the Indigenous Peoples who have walked with her throughout generations. We will continue to learn how to live in unity with Mother Earth and build strong, mutually beneficial, trusting relationships with Indigenous Peoples of our region.