

March 18, 2024

NDSU water researchers present at ND legislative committee hearing

North Dakota State University researchers presented their work addressing various water quality issues at the ND 68th Legislative Interim - Water Topics Overview Committee meeting in Bismarck.



Xu, Iskander, Le, Hargiss, and Jia

ND Senator Ronald Sorvaag serves as Chairman of the committee, and he recently addressed attendees at the ND Water Resources Research Institute (NDWRI) PFAS

Conference in Fargo. It was at this conference where he met many of the researchers and learned about their research into perfluoroalkyl and polyfluoroalkyl substances (PFAS).

PFAS are a group of human-made chemicals that have been used in industry and consumer products worldwide since the 1950s. Even though they don't occur naturally in the environment, PFAS are now found widespread in wildlife and fish all over the world and they do not break down easily naturally. Some PFAS can stay in the human body and research is currently underway to determine the negative health impacts they may cause.

Sorvaag asked ND WRRRI Director and NDSU professor of Agricultural and Biosystem Engineering Xinhua Jia to bring a group to present to the committee, which is responsible for legislative overview of water-related topics and related matters and any necessary discussions with adjacent states on water-related topics.

Jia discussed how the ND Water Resources Research Institute located at NDSU is one of 54 institutes across the country. With 45 affiliate faculty members (35 from NDSU and 10 from UND), the institute is charged with promoting research that addresses water quality issues and expands the knowledge of water-related phenomena while promoting the training and education of current and future water resources scientist, engineers, and technicians.

Jia detailed current NDWRRRI research topics that include agricultural processes, hydrology, water quality, and basin issues in the Missouri, Souris and James rivers. She also discussed the new Water Resources Certificate program at NDSU and how it will help prepare students to enter careers in hydrology and water resource management. Jia concluded with a discussion about her own research, which involves smart irrigation systems.

Syed Iskander, NDSU assistant professor of Civil, Construction and Environmental Engineering discussed his work monitoring PFAS in Fargo's compost waste program. He showed how yard waste compost can contribute to the overall level of PFAS in the environment and discussed strategies to monitor the levels.

Jiale Xu, NDSU assistant professor of Civil, Construction and Environmental Engineering discussed his research into removing PFAS from industrial wastewater through electrochemical technologies. He showed how his process utilizing iron fillings and salt from brine was a relatively low-cost solution to the problem.

Trung Le, NDSU assistant professor in Civil, Construction and Environmental Engineering presented his research about water flows structures under ice cover on rivers. By understanding the dynamics of these flows, Le provides insights into mitigating flooding conditions each spring.

Christina Hargiss, director of the School of Natural Resource Sciences, detailed water use projects that NDWRRI and the U.S. Geological Services have collaborated on over the last eight years. She provided details on municipal and rural water use in addition to the increased commercial water use in the Bakken area since 2000. Hargiss also discussed research into urban stormwater contaminants and the impact of harmful algal blooms on the cattle herds in the state.

"ND WRRI and our researchers conduct important work related to a strategic research priority at NDSU: water quality and security," said Colleen Fitzgerald, NDSU vice president for research and creative activity. "This group and others at NDSU are up to the challenge of ensuring clean water for our state along with producing the next generation of water resource experts." The NDWRRI began reporting to the Office of Research and Creative Activity on July 1, 2022 and has progressively raised its profile in terms of campus research initiatives supporting North Dakota's water issues.

[A replay of the group's testimony is available.](#)

Feedback requested:

NDSU Attending Veterinarian/Director of Animal Resources

Rebecca Erickson, DVM, DACLAM is a senior clinical veterinarian at the Center for Comparative Medicine and a research assistant professor in the department of pathology at Northwestern University. She recently conducted an open forum for the position of NDSU Attending Veterinarian/Director of Animal Resources.

If you were unable to attend Dr. Erickson's forum, a recorded version is [available](#). You are invited to [submit your feedback](#) by Tuesday, March 19.

- Review the University Attending Veterinarian/Director of Animal Resources [position description](#).
- Read Dr. Erickson's [cover letter and resume](#)

Exploring Paths to Research Leadership Seminar Series
Next session: March 28



As part of her RCA Broadening Participation Faculty Fellow role, [Febina Mathew](#), NDSU associate professor of plant pathology, has created the Exploring Paths to Research Leadership pilot program. These sessions will enable participants to explore different paths to research leadership.

Positioning Your Research Program in the Scientific Community

Facilitating networking opportunities with faculty members to effectively secure funding from the USDA, NSF, and/or other funding agencies.

- March 28, Nueta (MU), 11:30 AM to 1 PM
 - Speakers: Christi McGeorge, Sylvio May, Sathish Venkatachalem, Hollie Mackey, and Ganapathy Mahalingam
-

Sessions are free, but registration is required. Lunch will be provided at each session.

[Learn more and register >>](#)



2024 North Dakota Water Resources Research Institute (NDWRRI) Fellowship Program

All NDSU and UND graduate students studying in water resources areas are invited to apply for the 2024 NDWRRI Fellowship Program. Applicants must be a current NDSU or UND graduate student conducting thesis/dissertation research in water resources areas. Recipients of a 2023 NDWRRI fellowship may apply for continuous funding in 2024.

**Applications must be submitted electronically to Xinhua.Jia@ndsu.edu
by 5:00 PM on April 5, 2024**

[Learn more and apply >>](#)



Applications are Open for NDSU Indigenous Food Sovereignty Summer Program for Students

The application period is now open for the Indigenous Food Sovereignty Emerging Leaders Program. Developed through NDSU's Institute for Indigenous Food Sovereignty and Public Health (IIFSPH), this program is supported by the U.S. Department of Agriculture (USDA) Office of Tribal Relations (OTR). The IIFSPH is part of NDSU's American Indian Public Health Resource Center (AIPHRC).

This program stems from a cooperative agreement between USDA and NDSU to engage and partner with Tribes and Tribal colleges to improve the delivery of culturally appropriate public health services and functions in American Indian communities, focusing on Indigenous food sovereignty.

Through the three-week Indigenous Food Sovereignty Emerging Leaders Program, selected students will:

- Engage with diverse stakeholders;
- Broaden their knowledge in areas such as public health, nutrition, food, and agriculture;
- Build the skills for presenting on health and food sovereignty topics to their community; and

- Learn how to build and strengthen sustainable food and public health programs within Native communities.

The program will take place from June 9 – 29, 2024 on NDSU's campus in Fargo, North Dakota. In addition to the benefits described above, selected students will receive housing on campus, payment of travel expenses, meals, and more.

Up to 25 students will be selected for this year's program. High school and college undergraduate students who are 18 years of age by May 1, 2024 are invited to apply. An informational webinar will take place March 28 at 3 p.m. ET. Register today.

The deadline to apply is Monday, April 15. Those selected will be notified Wednesday, May 1.

[Learn more and apply today >>](#)



The graphic features a dark green background with a white border. At the top center is a blue teardrop shape containing a white coffee cup icon with a red flame. To the left is a yellow coffee mug with the text "ALL ARE WELCOME" and to the right is another yellow coffee mug with "FREE COFFEE". The main title "StartupBREW" is in large white font, with "FARGO" below it. A subtitle reads "A weekly meetup for entrepreneurs, creatives, and community members to connect and explore the entrepreneurial journey." Below this, a location pin icon is followed by "Drekker Brewing" and a clock icon with "8 AM - 9:30 AM". A yellow banner at the bottom left contains the date "APRIL 3" and the text "2ND ANNUAL NDSU TAKEOVER DAY FEATURING: Gruvy Education + The Green and the Gold Collective". On the right side of the banner is a photograph of two men, Jay Bartley and William Grube, smiling.

ALL ARE WELCOME

StartupBREW
FARGO

A weekly meetup for entrepreneurs, creatives, and community members to connect and explore the entrepreneurial journey.

Drekker Brewing 8 AM - 9:30 AM

APRIL 3

2ND ANNUAL
NDSU TAKEOVER DAY
FEATURING:
Gruvy Education + The Green and the Gold Collective



NDSU to "take over" StartupBREW on April 3

Jay Bartley, founder of The Green and The Gold Collective and William Grube, founder of Gruvy Education will present in this special NDSU StartupBREW.

The Green and The Gold Collective is dedicated to championing the rights, opportunities, and well-being of North Dakota State University's Bison athletes in the dynamic realm of NIL (Name, Image, Likeness). Jay's mission is to empower and educate student-athletes, ensuring they make informed decisions about their NIL rights, while cultivating a culture of integrity, responsibility, and community engagement.

William Grube is the founder of Gruvy Education, a pioneering initiative aimed at revolutionizing the intersection of education and artificial intelligence (AI). William collaborates closely with educators and staff, delivering comprehensive AI training and keynote presentations. His mission is to equip educators with the tools and knowledge necessary to harness the power of AI effectively, ensuring that our

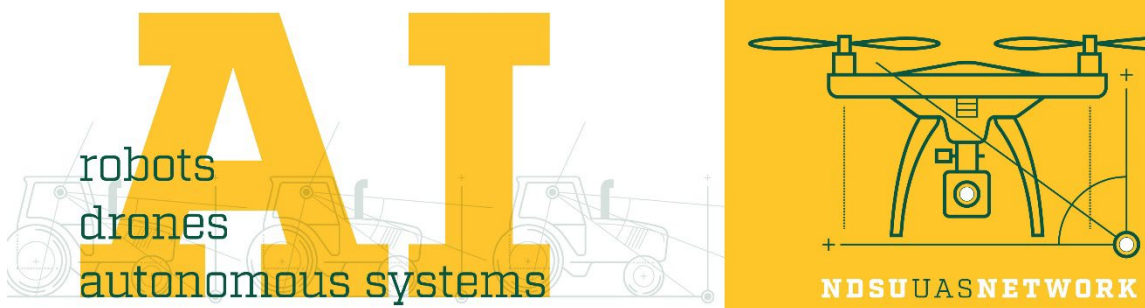
educational system is primed for the advancements of the future.

Held weekly on Wednesday mornings from 8:30am - 9:30am, StartupBREW Fargo is a time to learn, support, and inspire. This morning meetup is for entrepreneurs, innovators, creatives, and community members alike to come together and explore the entrepreneurial journey and is built on the notion that entrepreneurs do better when they have access to each other and the greater community that supports them.

Schedule:

- 8:00 AM - Coffee Club (time to drink coffee and connect)
- 8:30 AM - Program Begins
- 9:30 AM - Program Ends

[Learn more >>](#)



Join the NDSU UAS Network

Inspired by robots, drones, autonomous systems and artificial intelligence for your research? Your talent is needed! Join the NDSU UAS Network, where cutting-edge technology meets collaborative excellence.

The NDSU UAS Network is a collaborative community organized by NDSU Associate Professor and RCA UAS Faculty Fellow Rex Sun. Its goal is to gather individuals who are interested in uncrewed autonomous systems (UAS), artificial intelligence (AI), and cutting-edge technology to enrich innovation, research, and interdisciplinary collaboration.

[Sign up >>](#)



Research Development and Grant Writing News

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.



Here are some articles you will find in the February and March 2024 editions:

- **Incremental Research is the "Kiss of Death" at NSF** – A common negative review comment in NSF reviews is that the research is "incremental." We discuss what that term means and how to avoid it.
- **Sustainable Regional Systems Research Networks** – We discuss the NSF Sustainable Regional Systems Research Networks solicitation and how it illustrates the concept of convergent research.
- **Why Faculty Should Attend Funder Conferences and Workshops** – NSF recently announced its Spring 2024 NSF Grants Conference, and NIH is tentatively planning its Grants Conference for late 2024. We discuss why PIs should attend these types of conferences and program-specific workshops.
- **What Does a Successful NSF Proposal Look Like?** – When an NSF solicitation doesn't provide detailed instructions, NSF's Proposal and Award Policies and Procedures Guide provides guidelines for preparing your NSF proposal. We discuss the PAPPG's instructions.]
- **Avoiding A Common Reviewer Complaint: Descriptive Research** – A common complaint in reviews is that the project is descriptive. We discuss what that term means and how to avoid it (reprinted from March 2021 issue).

- **Summary of Changes to the PAPPG NSF 24-1** – The newest revision of NSF’s Proposal & Award Policies & Procedures Guide goes into effect May 20, 2024. We discuss changes.
- **Division of Environmental Biology Virtual Office Hour** – We summarize what was discussed in DEB’s recent office hour about how to write a strong proposal to DEB, and we provide links to slides and recaps of other NSF office hours.
- **NSF Ideas Labs: How They Work and Why They Are a Great Opportunity for Faculty** – NSF is increasingly employing the Ideas Labs model. We discuss how it works and how faculty researchers can benefit from participating.
- **Artificial Intelligence in Water Conservation** – We discuss an instructive example of how AI research is being conducted in the context of specific applications. This example, funded by the Strategic Environmental Research and Development Program (SERDP), focuses on using AI to reduce the amount of water we use and manage our use of water more effectively.
- **Cultivating Grantsmanship Among Humanities and Social Science Graduate Students** – We discuss why humanities and social science graduate students should apply for grants, and how they can find grant opportunities (reprinted from May 2021 issue).
- **Strategic Uses of the Funding Solicitation** – We discuss how PIs should use the solicitation to inform their proposal’s structure (reprinted from May 2021 issue).

[Access these and many more articles \(requires NDSU log-in\) >>](#)



Create and Route Proposals in Novelution for Internal Approvals

All proposals need to be routed for review and approval prior to submission to the sponsor and must be received by Sponsored Programs at least three business days prior to the application due date.

To create a proposal in Novelution and route for internal approvals, sign in to the Novelution system with your NDSU username and password and follow the steps below. Information on how to access and use Novelution can be found on the [RCA webpage](#).

Creating a proposal in Novelution:

- Under the “Grants & Contracts” tab, select “Create Proposal”.
- Complete required fields in the Novelution panels (those marked with a red *).
- Complete and upload budget using sponsor approved format or template. If sponsor does not provide a template, budget tools and templates are available on the RCA website under Proposal Development/Budget Development. Forms are on the [SPA Forms](#) page.
- Complete and upload scope of work or abstract.
- Upload any other proposal documents requiring Authorized Organizational Representative (AOR) signature in the Proposal Uploads panel.
- System will electronically route through department or center and college for approvals.
- SPA provides final budget review and AOR signature.

Questions on proposal submission can be directed to ndsu.research@ndsu.edu, or 231-7258.

NSF Proposal & Award Policies & Procedures Guide revised

The National Science Foundation (NSF) has announced that a revised version of the **NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 24-1)** has been issued. The new PAPPG will be effective for proposals submitted or due on or after May 20, 2024. While this version of the PAPPG becomes effective on May 20, 2024, in the interim, the guidelines contained in the current [PAPPG \(NSF 23-1\)](#) continue to apply.



Through May 20, each issue of the RCA Update will highlight a new NSF PAPPG feature or change.

Changes to NSF Proposal Guide: Mentoring Plans

Effective May 20, 2024

The new Proposal and Award Policies and Procedures Guide ([PAPPG 24-1](#)) from the National Science Foundation (NSF) will take effect on May 20, 2024. Among the changes introduced in the new PAPPG, **NSF has expanded their mentoring plan requirement to include any graduate students supported on the project in addition to postdocs.** The page limitation for the mentoring plan remains one page.

[Learn more about the new mentoring plan requirements >>](#)

[Watch a recording of an NSF webinar discussing the major changes >>](#)

A by-chapter [Summary of Changes](#) provides a quick overview of all changes to this PAPPG (NSF 24-1).

Energy Sovereignty for Indigenous People (ESIP) Global Initiative Workshops

The Energy Sovereignty for Indigenous People (ESIP) Global Initiative, a collaboration of the University of North Dakota, Kansas State University, and North Dakota State University, is sponsoring workshops via Zoom that are open to all faculty and graduate students at North Dakota's NSF EPSCoR affiliated colleges and universities.

SERIES 1: COLLABORATING ACROSS CULTURES

- History, Cultural Context, and Implications of Colonization on Tribal Nations - March 27 from 11-12:30 via Zoom
- How to conduct research in a way that honors the sovereignty of Tribal Nations - April 3 from 11-12:30 via Zoom

SERIES 2: BRINGING JOY TO YOUR TEACHING CAREER: HOW TO FALL IN LOVE WITH TEACHING

- Session 1: Designing Effective Learning Environments - April 10 from noon-1pm via Zoom
- Session 2: Techniques that Foster Engagement and Learning - April 15 from noon-1pm via Zoom

SERIES 3: REFRESHING YOUR TEACHING AT MID-CAREER: HOW TO FALL BACK IN LOVE WITH TEACHING

- Designing Effective Learning Environments - April 24 from noon-1pm via Zoom
- Techniques that Foster Learning- April 29 from noon-1pm via Zoom

SERIES 4: NETWORKING AND COLLABORATIONS

- Session 1: Networking and Collaborations - May 8 from 11-noon via Zoom

[Learn more and register >>](#)



Workshop on Broader Impacts

A Workshop on Broader Impacts will be hosted in the Conference Center at Minot State University on April 17, 2024. The workshop will be presented by the [Center Advancing Research Impact in Society \(ARIS\)](#). ARIS works with U.S. and international scientists to build capacity, advance scholarship, grow partnerships and provide resources to demonstrate the impact of research to communities and society.

Workshop topics include

- **Broader Impacts 101**
The NSF refers to broadening participation as “expanding efforts to increase

participation from underrepresented groups and diverse institutions throughout the United States.” This session will explore broadening participation activities, why they are a priority for the NSF as well as other funding agencies, and how to plan, implement and assess them successfully. Several specific examples will be presented and discussed;

- **Building Collaborations & Partnerships for Broader Impact Activities**
Developing and implementing successful broader impacts activities is often dependent on identifying the right BI partner(s) and establishing a productive collaboration. But where do you go to find a good BI partner? What are the elements of a successful partnership? And how can you ensure that the relationship is mutually beneficial for both members of the partnership? These and other questions will be explored in this interactive session; and
- **Building a Broader Impact Identity**
Most researchers are comfortable thinking about and discussing their research identity — who they are as researchers and what contributions they hope to make to their discipline through their research over the course of their careers. It is far less common, however, for researchers to think about their impact identity — the lasting impacts they aspire to have on their community and on society, as a whole, through their broader impacts work. This interactive session will introduce the concept of a broader impacts identity and walk investigators through a process for starting to define their own BI identity. While any researcher is likely to benefit from this workshop, it is particularly relevant to early-career researchers (as well as to broader impacts professionals who work with researchers and can play a crucial role in helping them develop their BI identities).

This workshop is free, but [registration is required](#).



SciENCv individual or small group sessions available

NSF now requires the use of [SciENCv](#) to generate your **BioSketch** and **Current and Pending Support** documents for *ALL* grant applications.

If you haven't already managed to login and create a needed biosketch and current and pending support, and you would like some assistance, please reach out to ndsu.researchdev@ndsu.edu to set up a session! We will accommodate in-person and zoom.

» **JOIN OUR TEAM**
Now Hiring:

ENGINE CEO



NSF Engines: North Dakota Advanced Agriculture Technology Engine

The FARMS CEO will provide visionary leadership, establishing and driving the strategic direction of the program.

The North Dakota Advanced Agriculture Technology Engine (FARMS) is a collaborative partnership among the FMWF Chamber, Grand Farm, the GFM Economic Development Corporation, the ND Tribal College System, and NDSU.

[Learn more and apply >>](#)

An illustration on a yellow background featuring several light bulbs and lamps. On the left and right sides, there are tall, thin lamps with conical shades. In the center, there are several smaller light bulbs and lamps, some of which are glowing. One bulb in the center is glowing yellow, and another on the right is glowing pink. The illustration is composed of simple black outlines with some colored highlights.

Have a big, bright idea about research at NDSU?

It's important that we continually challenge each other to come up with ambitious, big ideas in our research endeavors at NDSU. So we'd like to hear your ideas, and the bigger they are, the better.

While we can't promise all of them will succeed, we welcome you to share them - from an early concept or thought all the way to developed ideas that may just need some collaboration - send us an email (bigideas@ndsu.edu) and get the process started.

Upcoming Events at a Glance

- **Exploring Paths to Research Leadership Seminar Series**
March 28, April 5, April 12 | [Learn more and register >>](#)
- **Energy Sovereignty for Indigenous People (ESIP) Global Initiative Workshops**
March 27, April 3, April 10, April 15, April 24, April 29, and May 8
[Learn more and register >>](#)
- **StartupBREW Fargo: NDSU Takeover Day**
April 3, 8:00am | [Learn more >>](#)
- **Student Research Days**
April 9 and 10 | [Learn more >>](#)
- **Workshop on Broader Impacts**
April 17 | [Learn more >>](#)

Funding Opportunities

QUICK LINKS



National Institutes
of Health

NIH Grant Funding



NSF Grant Funding



DoD Grant Funding

Air Force Fiscal Year 2025 Young Investigator Program

The Fiscal Year 2025 Air Force Young Investigator Research Program (YIP) intends to

support individual early in career scientists and engineers who have received Ph.D. or equivalent degrees by 01 April 2017 or later showing exceptional ability and promise for conducting basic research. The program objective is to foster creative basic research in science and engineering; enhance early career development of outstanding young investigators; and increase opportunities for the young investigator to recognize the Air Force and Space Force mission and related challenges in science and engineering.

Individual awards are made to U.S. institutions of higher education, industrial laboratories, for-profit, or non-profit research organizations where the principal investigator (PI) is employed on a full-time basis and holds a regular, non-contractor position. A YIP PI must be a U.S. citizen, national, or permanent resident. Researchers working at a Federally Funded Research and Development Center, or a Department of Defense (DoD) Laboratory are not eligible for this competition.

Deadline: June 21, 2024 | [Learn more and apply >>](#)

USDA AFRI Foundational and Applied Science Program

The AFRI Foundational and Applied Science Program supports grants in six AFRI priority areas to advance knowledge in both fundamental and applied sciences important to agriculture. The six priority areas are: Plant Health and Production and Plant Products; Animal Health and Production and Animal Products; Food Safety, Nutrition, and Health; Bioenergy, Natural Resources, and Environment; Agriculture Systems and Technology; and Agriculture Economics and Rural Communities. Research-only, extension-only, and integrated research, education and/or extension projects are solicited in this Request for Applications (RFA).

[Learn more and apply >>](#)

USDA AFRI Education and Workforce Development Program

The Agriculture and Food Research Initiative - Education and Workforce Development (EWD) focuses on developing the next generation of research, education, and extension professionals in the food and agricultural sciences. The National Institute of Food and Agriculture (NIFA) requests applications for the AFRI's Education and Workforce Development program areas to support:

1. professional development opportunities for K-14 educational professionals;
2. non-formal education that cultivates food and agricultural interest in youth;
3. workforce training at community, junior, and technical colleges;

4. training of undergraduate students in research and extension;
5. fellowships for predoctoral candidates and postdoctoral scholars.

[Learn more and apply>>](#)

DOE: Reaching a New Energy Sciences Workforce

Reaching a New Energy Sciences Workforce (RENEW) aims to build foundations for Office of Science (SC) research through traineeships at academic institutions that have been historically underrepresented in the SC portfolio. RENEW leverages SC's unique national laboratories, user facilities, and other research infrastructure to provide training opportunities for students and postdoctoral researchers from these institutions. The hands-on experiences gained through RENEW will open new career avenues for trainees, forming a nucleus for a future pool of talented young scientists, engineers, and technicians with the critical skills and expertise needed for the full breadth of SC research activities.

Deadline: July 23, 2024 | [Learn more and apply>>](#)

NEH: Research and Development

The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of organizing, searching, discovering, and using such materials.

This program supports projects at all stages of development, from early planning and stand-alone studies to advanced implementation. Research and Development projects contribute to the evolving and expanding body of knowledge for heritage practitioners, and for that reason, outcomes may take many forms. Projects may produce any combination of laboratory datasets, guidelines for standards, open access software tools, workflow and equipment specifications, widely used metadata schema, or other products.

Deadline: May 21, 2024 | [Learn more and apply >>](#)

NSF: Plant Genome Research Program

The Plant Genome Research Program (PGRP) supports genome-scale research that addresses challenging questions of biological, societal and economic importance. PGRP

encourages the development of innovative tools, technologies, and resources that empower a broad plant research community to answer scientific questions on a genome-wide scale. Emphasis is placed on the scale and depth of the question being addressed and the creativity of the approach. Data produced by plant genomics should be usable, accessible, integrated across scales, and of high impact across biology. Training, broadening participation, and career development are essential to scientific progress and should be integrated in all PGRP-funded projects.

Two funding tracks are currently available:

1. **RESEARCH-PGR TRACK:** Genome-scale plant research to address fundamental questions in biology, including processes of economic and/or societal importance.
2. **TRTech-PGR TRACK:** Tools, resources, and technology breakthroughs that further enable functional plant genomics.

[Learn more and apply >>](#)

Global Centers (GC) Use-Inspired Research Addressing Global Challenges through the Bioeconomy

This solicitation describes an ambitious program to fund international, interdisciplinary collaborative research centers that will apply best practices of broadening participation and community engagement to develop use-inspired bioeconomy research to address one or more global challenges identified by the scientific community. Here, the "used-inspired" nature of the research refers to project outcomes leading to foreseeable benefits to society. This program will prioritize research collaborations that foster team science and community-engaged research, use knowledge-to-action frameworks whose rationale, conceptualization, and research directions are driven by the potential use of the results as illustrated by Pasteur's Quadrant (see Stokes, Donald E. (1997), "Pasteur's Quadrant - Basic Science and Technological Innovation," Brooking Institution Press, p.196. ISBN 9780815781776). Proposals should also indicate how research will be co-generated with communities and stakeholders identified in the proposal. The proposed research should maximize the benefits of international, interdisciplinary collaborations, and describe the roles and responsibilities of each national team in achieving the goals of the proposed Global Center. Global Centers projects involving partnership between the U.S. and two or more partner countries are strongly encouraged. Global challenges must be addressed through international collaboration and researchers are encouraged to develop

international teams to address research questions that can only be addressed through multilateral efforts.

[Learn more and apply >>](#)

Department of Energy, Funding for Accelerated, Inclusive Research (FAIR)

The Office of Science (SC) seeks applications for fundamental research in fields supported by SC to build research capacity at institutions historically underrepresented in the SC portfolio, i.e. non-R1 minority serving institutions (MSIs) and non-R1 emerging research institutions (ERIs). This FOA aims to build research capacity, including infrastructure and expertise at these institutions, through mutually beneficial relationships between applicants and DOE national laboratories, SC scientific user facilities, or R1 MSI/ERIs. SC supports fundamental research in applied mathematics, biology, chemistry, computer science, engineering, geoscience, isotope research, materials science, fusion energy science, and physics to transform our understanding of nature and catalyze scientific discoveries that can lead to technical breakthroughs. All applications to SC should focus on hypothesis-driven basic research. SC does not support applied research, product development, or prototyping.

[Learn more and apply >>](#)

The NIH Common Fund Venture Program

The Common Fund Venture Program is a new area of Common Fund support that provides a framework for development of short-term Common Fund initiatives that embrace scientific risk and are responsive to the shared priorities of NIH Institutes, Centers, and the Office of the Director. Venture initiatives are Common Fund investments and so must meet Common Fund criteria. However, additional criteria also apply, emphasizing brief, modest investments that can be implemented quickly in response to emerging opportunities. Venture investments should be lightweight and nimble while having a strong potential to accelerate science quickly.

[Learn more and apply >>](#)

Call for internal proposals: Pilot Grants: NASA EPSCoR

RCA is seeking internal proposals for NASA pilot projects of up to \$50,000.



Deadline to apply is COB, April 1, 2024

[Learn more and apply >>](#)

Limited submission programs

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 by **close of business** on the notification deadline date.

Review available [Limited Submission Programs](#)

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.

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

[Contact Us](#)



The Office of Research and Creative Activity (RCA) sends bi-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.