

# RCA UPDATE

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March 6, 2023

## Award Recipients from October, November, and December 2022



Congratulations to all award recipients from October through December 2022. Complete lists with more details are available in both PDF and Excel format on the [RCA Website](#).

*Note: The awards listed are for externally funded projects.*

# DVMs & Vet Techs

Please update your  
Novelution profile with  
your current DVM or  
Vet Tech license.

This ensures there is no delay  
when creating or being added  
to an IACUC protocol.



[Login in to Novelution](#) to update your profile.

**What is a No Cost Extension?**

Sponsored projects can be delayed for a variety of reasons and a No Cost Extension can be requested to extend a project's period of performance so work can be completed.



Here are a few things to keep in mind when an extension is necessary.

- **Timing**  
Sponsored Programs Administration (SPA) recommends initiating an extension request with SPA between 90 and 45 days before the scheduled end of the project. Federal agencies and other sponsors may have specific times when they will accept requests and following this recommended timing to make a request may help prevent delays or gaps in a project's period of performance.
- **Process**  
To request an extension, use the blue Amend button at the top of the Novelution record for your project and fully complete the form that appears. SPA will send the request to the sponsor and ensure that any required sponsor information or documents are included.
- **Execution**  
Once NDSU has received sponsor approval and an authorized signature from SPA is completed, SPA will coordinate with GCA to update Novelution and Peoplesoft with the new end dates.

Each sponsor has their own set of rules regarding extensions and making a request does not guarantee that an extension will be granted. If you have any questions regarding your specific project, you can contact the SPA team at [ndsuhresearch@ndsuh.edu](mailto:ndsuhresearch@ndsuh.edu) or 701-231-8045 for assistance.

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## We're Hiring: UAS Faculty Fellow Positions

### WE'RE LOOKING FOR NDSU UAS FACULTY FELLOWS

The Office of Research and Creative Activity is seeking applications for one or more Uncrewed Autonomous Systems (UAS) Faculty Fellow positions. Uncrewed Autonomous Systems include aerial, ground, and marine vehicles.

Applicants must be from NDSU and may be from any discipline at the university with an interest in some aspect of uncrewed autonomous systems - technology, applications, policy, ethics, commercialization, entrepreneurship or other relevant area.

[www.ndsu.edu/research/uasfellow](http://www.ndsu.edu/research/uasfellow)

NDSU

RESEARCH AND CREATIVE ACTIVITY

**Deadline to apply: March 14, 2023**

[Learn more and apply>>](#)

## We're Hiring: Director of Innovation and Economic Development

**WE ARE SEARCHING FOR OUR NEXT  
DIRECTOR OF INNOVATION & ECONOMIC DEVELOPMENT**

The Director will design, lead, and manage economic development, leverage opportunities for industry partnerships, and nurture and advance the entrepreneurial (pre-) startup ecosystem.

The successful candidate will be involved at a hands-on level in these efforts as well as design, lead and manage a vision to enhance NDSU's activity and contributions in these efforts

Learn more and apply: <https://tinyurl.com/5hysykc2>

NDSU | RESEARCH AND CREATIVE ACTIVITIES

**Deadline to apply: March 13, 2023**

[Learn more and apply>>](https://tinyurl.com/5hysykc2)

**We're Hiring: NDSU Research Foundation Executive Director**

**WE ARE SEARCHING FOR OUR NEXT  
NDSU RESEARCH FOUNDATION EXECUTIVE DIRECTOR**

The Executive Director will create impact and outcomes via NDSU research, including advancing the public benefit and commercialization potential of the research. This person will work collaboratively with the Board and NDSU to develop and champion a shared vision, establish organizational goals and metrics, create a strategic plan, and enhance partnerships with campus researchers and industry in support of commercialization and economic development.

Learn more and apply: <https://tinyurl.com/2vmt3c4m>

NDSU | RESEARCH AND CREATIVE ACT

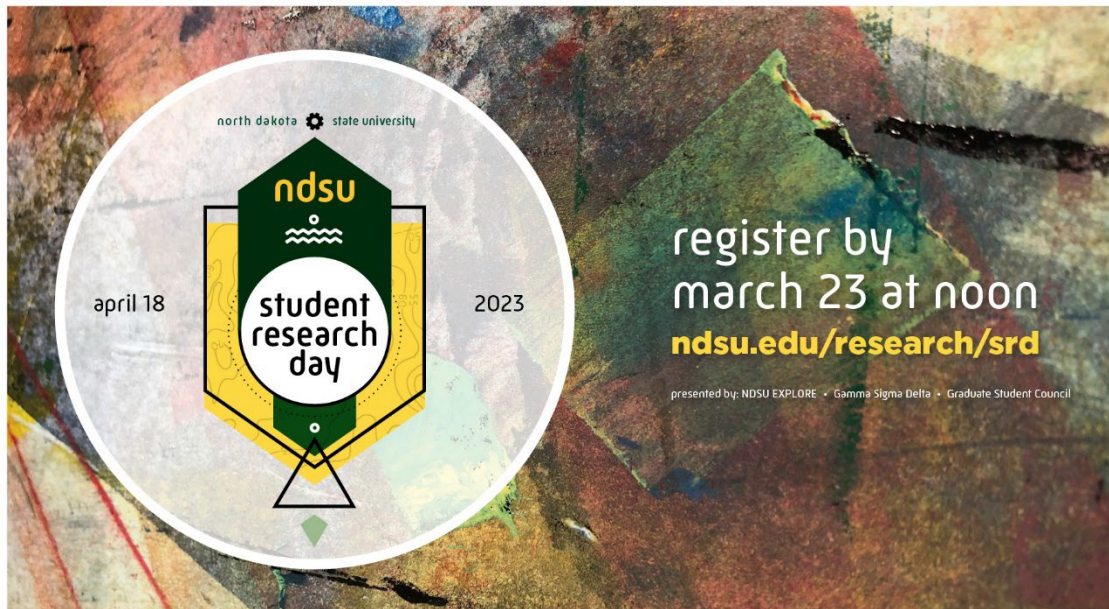
[Learn more and apply>>](#)

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## **Student Research Day - April 18, 2023**

Undergrad and graduate students in all disciplines are encouraged to register for Student Research Day to present either an oral or poster presentation. Prizes are available for top presenters. Registration closes on March 23.





NDSU Student Research Day is a collaboration among NDSU EXPLORE, Gamma Sigma Delta, and the Graduate Student Council.

[Learn more and register >>](#)

# ND EPSCoR

## DEPSCoR Day at Montana State University May 18, 2023

Montana State University will host [DEPSCoR Day](#), a full-day workshop, on Thursday, May 18, 2023. Program officers from the Department of Defense (DoD) will present funding opportunities available through the DoD Established Program to Stimulate Competitive Research (DEPSCoR) and related DoD research programs.

Program officers from the Army, Navy, Air Force and other DoD representatives will participate in the meeting, which will cover the following topics:

- Working with the DoD, especially ARO, ONR, AFOSR
- Making connections with DoD research program officers
- Finding DEPSCoR research funding opportunities
- Basic research within the DoD
- One-on-one engagement with relevant program officers.

The FY2023 DEPSCoR RFP has not been published, but to learn more about the program and DEPSCoR's priorities, review the FY22 RFP: [DEPSCoR Research Collaboration](#).

ND EPSCoR is offering support for travel expenses for faculty to attend this meeting.

[Complete an application](#) by March 24, 2023, to be considered for a travel award.

Apply early as funding is limited.

Contact [ndepscor@ndus.edu](mailto:ndepscor@ndus.edu) with questions.

## National Science Foundation Workshops

On March 30, 2023, Kelvin Chu (former NSF Program Officer and current President and COO of The Implementation Group) will lead two workshops for faculty interested in the following NSF programs:

- **Topic 1: NSF CAREER Proposals**  
8:30am-1:00pm
- **Topic 2: NSF EPSCoR Research Infrastructure Improvement Program - Track 2 & Track 4**  
1:30pm-3:30pm





[Learn more and register >>](#)

[More about Kelvin Chu >>](#)

## Virtual Workshops on Pursuing Grant Funding

Lucy Deckard (President, Academic Research Funding Strategies, LLC) will lead two virtual workshops on pursuing grant funding, each focused on a specific area:

- **How to Pursue Funding from Mission Agencies**  
March 27, 2023; 12-1:30pm
- **Pursuing Funding for Education Research**  
April 19, 2023; 12-1:30pm



[Learn more and register >>](#)

[More about Lucy Deckard >>](#)

## DARPA: Future of AI Workshops

The Defense Advanced Research Projects Agency (DARPA) is accepting applications for a virtual event June 13-16 and an in-person event July 31-August 2 at which participants will address the question: ***How do we build artificial intelligence and machine learning systems that people can trust?***



During each workshop, participants will have an opportunity to brainstorm new directions towards trustworthy AI with applications for national security.

Participation will be limited to approximately 100 people per workshop; the deadline to apply is March 20, 2023.

[Learn more and apply >>](#)



## Institute of Education Sciences Summer Training Opportunities

The Institute for Education Sciences (IES) is supporting training institutes during summer 2023 that have upcoming application deadlines:

### [Meta-Analysis Training Institute](#)

- Workshop dates: July 24 – 29, 2023
- Workshop location: Chicago, IL
- Application deadline: March 31, 2023

### [Summer Research Training Institute on Cluster-Randomized Trials](#)

- Workshop dates: July 17 - 27, 2023
- Workshop location: Northwestern University
- Application deadline: March 31, 2023

### [Evidence-Based Intervention Training for Education](#)

- Workshop dates: June 20-23, 2023
- Workshop location: Ohio State University
- Application deadline: March 31, 2023

## Upcoming Events at a Glance

- **Registration Deadline: NSF Engineering CAREER Proposal Workshop**  
March 17, 2023 / [Learn more >>](#)
- **Application Deadline: DARPA Future of AI Workshops**  
March 20, 2023 / [Learn more >>](#)

- **Registration Deadline: Student Research Day**  
March 23, 2023 / [Learn more >>](#)
- **Virtual Workshop: How to Pursue Funding from Mission Agencies**  
March 27, 2023 / 12-1:30pm / [Learn more >>](#)
- **NSF CAREER Workshop**  
March 30, 2023 / 8:30am-1pm / [Learn more >>](#)
- **NSF EPSCoR Track 2 & Track 4 Workshop**  
March 30, 2023 / 1:30pm-3:30pm / [Learn more >>](#)
- **Virtual Workshop: Pursuing Funding for Education Research**  
April 19, 2023 / 12-1:30pm / [Learn more >>](#)
- **DEPSCoR Day at Montana State University**  
May 18, 2023 / [Learn more >>](#)

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## Call for Reviewers: Foundation for Food & Agriculture Research

FFAR is recruiting external peer reviewers for 2023 grant programs, including the [New Innovator Award](#) and [Seeding Solutions](#).



FOUNDATION FOR  
FOOD & AGRICULTURE  
RESEARCH

To volunteer, [complete this form](#) by **March 22, 2023**.

## NIH Data Management Sharing Policy

The new Data Management and Sharing Policy (DMSP) took effect on January 25, 2023. The National Institutes of Health (NIH) has provided several resources to assist in preparing DMS plans:

- [Sample DMS Plans](#)
- [DMS Plans for Large, Multicomponent Applications](#)
- [Hypertext in DMS Plans](#)
- [Applicability to Training Activities](#)



National Institutes  
of Health

## Reminder: Updates to NIH and NSF proposal guides

- On January 25, 2023, the National Institutes of Health transitioned to the new **FORMS-H Grant Application Forms and Instructions**. [Learn more >>](#)
- On January 20, 2023, the National Science Foundation transitioned to a new **Proposal and Award Policies and Procedures Guide**, which includes mandatory changes to biosketches and current and pending support. [Learn more >>](#)

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## Funding Opportunities

- [BLM Montana / Dakota Projects](#)
- [Department of Justice Programs](#)
- [DoD: Congressionally Directed Medical Research Program](#)
- [DoD: Multidisciplinary Research Program of the University Research Initiative \(MURI\)](#)
- [DOE: Carbon Capture Programs – LIMITED](#)
- [DOE: Energy Improvement in Rural or Remote Areas](#)
- [DOE: Resiliency Advances by Faster Actuation of Power Semiconductor Technologies](#)
- [FDA: Biosimilar User Fee Act](#)
- [HRSA: Pathway to Registered Nurse Program](#)

- [NEH: Infrastructure and Capacity Building Challenge Grants – LIMITED](#)
- [NEH: Research and Development](#)
- [NIH: Improve Pregnancy Outcomes Among Women Who Experience Persistent Disparities](#)
- [NIH: Impact of Pandemic Food and Housing Policies and Programs in Health Disparity Populations](#)
- [NIH: NIMHD Exploratory / Developmental Research Grant Program](#)
- [NSF DCL: Advancing Plant Transformation](#)
- [NSF DCL: Bioinspired Design Collaborations](#)
- [NSF DCL: Research on Integrated Photonics Utilizing AIM Photonics Capabilities](#)
- [NSF: Expanding AI Innovation through Capacity Building and Partnerships – LIMITED](#)
- [NSF: Safe Learning-Enabled Systems](#)
- [Simons Foundation: Pivot Fellowships in Mathematics or Natural Sciences](#)
- [USDA-AFRI: Sustainable Agricultural Systems](#)
- [USDA-NIFA: Higher Education Challenge Grants Program](#)
- [USDA-NIFA: Supplemental and Alternative Crops](#)

## 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](mailto:ndsu.researchdev@ndsu.edu).

If you identify a limited submission opportunity that is not on the list below, please notify [ndsu.researchdev@ndsu.edu](mailto:ndsu.researchdev@ndsu.edu).

- [USDA: Women and Minorities in STEM](#)  
Notification deadline: 03/08/2023
- [NIH: Collaborative Program Grant for Multidisciplinary Teams](#)  
Notification deadline: 03/08/2023
- [Carbon Capture Demonstration Projects Program](#)  
Notification deadline: 03/21/2023

- [NEH: Infrastructure and Capacity Building Challenge Grants](#)  
Notification deadline: 03/21/2023
- [NSF: Expanding AI Innovation through Capacity Building and Partnerships](#)  
Notification deadline: 04/05/2023

There are a number of limited submission grant programs with upcoming agency deadlines for which we did not receive any notifications of interest. 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.

- [DOE: Large Wind Turbines and Manufacturing](#)  
Concept paper deadline: 03/23/2023
- [Breast Cancer Alliance: Exceptional Projects Grants](#)  
LOI deadline: 03/31/2023
- [Breast Cancer Alliance: Young Investigator Grants](#)  
LOI deadline: 03/31/2023
- [NSF: Quantum Sensing Challenges for Transformational Advances in Quantum Systems \(QuSeC-TAQS\)](#)  
Deadline: 04/3/2023
- [DRL: Ensuring Freedom of Expression for Vulnerable and Marginalized Populations Responding to Anti-Rights Efforts and Targeted Attacks](#)  
Deadline: 04/05/2023
- [NSF: Partnerships for Innovation](#)  
Deadline: 05/02/2023
- [NIH: Alzheimer's Disease Research Centers](#)  
LOI deadline: 05/14/2023
- [NSF: IUSE/Professional Formation of Engineers: Revolutionizing Engineering Departments](#)  
Deadline: 05/10/2023

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## **BLM: Montana / Dakota Projects**

The Bureau of Land Management (BLM) has published a number of funding programs aimed at projects in the region (Montana / Dakota):

- [Aquatic Resource Management](#)
- [Cultural and Paleontological Resource Management](#)



- [Environmental Quality and Protection](#)
- [Fuels Management and Community Fire Assistance Program](#)
- [Invasive and Noxious Plant Management](#)
- [Threatened and Endangered Species Program](#)
- [Wildlife Program](#)

*Deadlines vary by program.*

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## Department of Justice Programs

The Department of Justice (DOJ) has a number of open funding opportunities with upcoming deadlines, including:

- **NIJ: Research and Evaluation on Jails** [[O-NIJ-2023-171613](#)]  
*Deadline: May 18, 2023*
- **NIJ: Research and Evaluation on School Safety** [[O-NIJ-2023-171616](#)]  
*Deadline: May 22, 2023*
- **OJP: Research and Evaluation on the Administration of Justice** [[O-NIJ-2023-171579](#)]  
*Deadline: May 10, 2023*

[Complete list of DOJ opportunities >>](#)

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## DoD: Congressionally Directed Medical Research Program

The Department of Defense (DoD) Congressionally Directed Medical Research Program ([CDMRP](#)) has a number of programs that are currently accepting applications or have announced anticipated programs, including:

- Lung Cancer Research Program ([LCRP](#))
- Prostate Cancer Research Program ([PCRP](#))
- Ovarian Cancer Research Program ([OCRP](#))
- Breast Cancer Research Program ([BCRP](#))
- Peer Reviewed Medical Program ([PRMRP](#))

*Deadlines vary by topic area.*

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## DoD: Multidisciplinary Research Program of the University Research Initiative (MURI)

DoD's [MURI program](#) addresses high-risk basic research and attempts to understand or achieve something that has never been done before. The program was initiated over 25 years ago and it has regularly produced significant scientific breakthroughs with far reaching consequences to the fields of science, economic growth, and revolutionary new military technologies. Key to the program's success is the close management of the MURI projects by Service program officers and their active role in providing research guidance.

*Whitepaper deadline: May 19, 2023*



## DOE: Carbon Capture Programs – Limited Submission Program

The Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED) in collaboration with the Office of Fossil Energy and Carbon Management (FECM) is issuing two related Funding Opportunities.

- The [Carbon Capture Demonstration Projects Program](#) is for integrated carbon capture and storage (CCS) projects that demonstrate substantial improvements in the efficiency, effectiveness, cost, and environmental performance of carbon capture technologies for power, industrial, and other commercial applications.

**This is a [limited submission grant program](#); Notify RCA by March 21, 2023, 5pm, if you are interested in submitting to this program.**

- The goal of the [Carbon Capture Large-Scale Pilot Project Program](#) is to deliver clean energy technology demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized energy system.

*Concept Paper Deadline: April 5, 2023 4pm*



## DOE: Energy Improvement in Rural or Remote Areas

DOE's Energy Improvements in Rural or Remote Areas (ERA) Program [[DE-FOA-0002970](#)] will provide financial investment, technical assistance, and other resources to advance clean energy demonstrations and energy solutions that are replicable and scalable. ERA aims to fund clean energy projects with three specific goals:

1. **Deliver measurable benefits to energy customers in rural or remote areas** by funding replicable energy projects that lower energy costs, improve energy access and resilience, and / or reduce environmental harm;
2. **Demonstrate new rural or remote energy system models** using climate-resilient technologies, business structures that promote economic resilience, new financing mechanisms, and / or new community engagement best practices; and
3. **Build clean energy knowledge, capacity, and self-reliance in rural America.**

*Concept paper deadline: April 14, 2023; 4:00pm*

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## DOE: Unlocking Lasting Transformative Resiliency Advances by Faster Actuation of Power Semiconductor Technologies (ULTRAFAST)

The goal of [ULTRAFAST](#) is to advance the performance limits of silicon (Si), wide bandgap (WBG), and ultra-wide bandgap (UWBG) semiconductor devices and significantly improve their actuation methods to support a more capable, resilient, and reliable future grid. ARPA-E expects that projects will create new material, device, and / or power module technologies that enable realization of transformative power management and control. More specifically, ARPA-E is looking for semiconductor material, device and / or power module level advances to enable faster switching and / or triggering at higher current and voltage levels for improved control and protection of the grid.

Specific categories include:

1. Device and / or module technologies targeting protection functions at high current and voltage levels by achieving very fast by-pass, shunt, or interrupt capability at as low level of integration as possible with nanosecond-level reaction time (and corresponding slew rates).
2. High switching frequency devices and / or modules which enable efficient, high-power, high-speed power electronics converters.

3. Complementary technologies such as wireless sensing of voltage and current, high-density packaging with the integrated wireless actuators and device / module-level protection, power cell-level capacitors and inductors, and thermal management strategies to support (1) and (2).

*Deadline: Concept Paper March 28, 2023*

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## **FDA: Biosimilar User Fee Act (BsUFA) Research Grant (U01 - Clinical Trials Optional)**

The FDA and its stakeholders are exploring innovative ways to produce scientific evidence in support of biosimilar and interchangeable product development. The purpose of this Funding Opportunity ([RFA-FD-23-026](#)) is to address a diversity of topics related to improving the efficiency of biosimilar product development and advancing the development of interchangeable products. The scope of submitted projects should aim to focus on the following:

1. Increasing the accuracy and capability of analytical characterizations (including physical, chemical and biological function) and chemistry, manufacturing, and controls (CMC)
2. Developing alternatives to and / or reducing the size of studies involving human subjects

*Deadline: April 26, 2023*

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## **HRSA: Nurse Education, Practice, Quality and Retention (NEPQR) - Pathway to Registered Nurse Program (PRNP)**

The purpose of [this program](#) is to create a pathway from academic training to clinical practice through the creation and implementation of Licensed Practical Nurse / Licensed Vocational Nurse (LPN / LVN) to Registered Nurse (RN) Bridge Programs and employment of Clinical Nurse Faculty.

Funding will be used for:

- Program Development
- Direct Support for LPN / LVN to RN students
- Curriculum and Partnership Development
- Preceptors / Faculty

*Deadline: April 27, 2023*

## **NEH: Infrastructure and Capacity Building Challenge Grants – 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.

**Notify RCA by March 21, 2023, 5pm, if you are interested in submitting to this program.**

The purpose of the National Endowment for the Humanities (NEH) Infrastructure and Capacity Building Challenge Grants Program is to strengthen the institutional base of the humanities by enabling infrastructure development and capacity building. Awards of federal matching funds aim to help institutions secure long-term support for their core activities and expand efforts to preserve and create access to outstanding humanities materials.

Capital Projects support the purchase, design, construction, restoration, or renovation of facilities for humanities activities. This includes costs related to planning as well as the purchase and installation of related moveable and permanently affixed equipment for exhibiting, maintaining, monitoring, and protecting collections (whether on exhibit or in storage), and for critical building systems, such as electrical, heating ventilation and air conditioning, security, life safety, lighting, utilities, telecommunications, and energy management.

**Cost-Sharing is required for this program.**

## **NEH: Research and Development**

The National Endowment for the Humanities (NEH) [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 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.

Research and Development supports work on the entire range of humanities collection types including, but not limited to, moving image and sound recordings, archaeological artifacts, born digital and time-based media, rare books and manuscripts, archival records, material culture, and art.

*Deadline: May 16, 2023*

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## **NIH: Advancing Integrated Models (AIM) of Care to Improve Pregnancy Outcomes Among Women Who Experience Persistent Disparities (R01 -Clinical Trial Optional)**

Disparities in pregnancy outcomes are a public health crisis that requires new insights and solutions. The purpose of this initiative—advancing integrated models (AIM) of care [[RFA-NR-23-002](#)] —is to stimulate research to develop or evaluate supportive care models that address healthcare access or healthcare quality, together with structural or social inequities in efforts to prevent adverse pregnancy outcomes among racial and ethnic minority women. This includes original intervention research and research evaluating the impact of federal, tribal, state, local, or organizational policies and programs on pregnancy outcomes. Outcomes of interest include morbidity and mortality due to comorbid conditions (e.g., hypertension, diabetes, obesity, mental illness), severe maternal morbidity (e.g., cardiomyopathy, embolism, eclampsia), other factors for which risk is markedly elevated during and following the period of pregnancy (e.g., homicide including



when involving a firearm, suicide), and health behaviors that increase risk of poor pregnancy outcomes (e.g., diet and dietary behaviors, physical activity, substance use).

*Deadline: May 1, 2023*

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## **NIH: Evaluating the Impact of Pandemic Era Related Food and Housing Policies and Programs on Health Outcomes in Health Disparity Populations (R01 - Clinical Trial Optional)**

The purpose of this funding opportunity announcement (FOA) [[RFA-NR-23-003](#)] is to identify and evaluate the ongoing and long-term health impacts of disruptions in food and housing security experienced during the pandemic era and the role of targeted policy and programmatic actions in mitigating those impacts. For the purposes of this FOA, the pandemic era is defined as the period from 2020 to present, which includes ongoing widespread adverse social, behavioral, and economic disruptions. This FOA requests applications that propose examinations of how governmental (local, state, tribal, federal) food / nutrition and housing policies and programs aimed at reducing disruptive impacts of the pandemic era, influence health and health equity in individuals, families, and communities from health disparity populations.

Health disparity populations include racial and ethnic minority populations, less privileged socioeconomic status (SES) populations, underserved rural populations, sexual and gender minorities (SGM), and any subpopulations that can be characterized by two or more of these descriptions.

*Deadline: May 1, 2023*

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## **NIH: National Institute on Minority Health and Health Disparities Exploratory / Developmental Research Grant Program (R21 – Clinical Trial Optional)**

While scientific and technological discoveries have improved the health of the U.S. population overall, many populations, including racial / ethnic minorities and other disadvantaged groups, continue to bear disproportionate burdens of disease and adverse

health conditions. The purpose of the Exploratory / Developmental Research Grant Program [[PAR-23-111](#)] is to encourage new exploratory or developmental research projects that have the potential to break new ground in the fields of minority health and health disparities or extend previous discoveries toward new directions or applications that can directly contribute to improving minority health or reducing health disparities. Long-term projects or projects designed to incrementally increase knowledge in a well-established area are not appropriate for this FOA.

*Standard R21 deadlines apply. Upcoming Deadlines: June 16, October 16*

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## **NSF DCL: Advancing Plant Transformation**

This Dear Colleague Letter (DCL) [[NSF 23-019](#)] invites proposals focused on plant genetic transformation to certain existing programs at the National Science Foundation (NSF) and the U.S. Department of Agriculture (USDA). Proposals can involve basic research, long-term studies, tool development, or applications emphasizing potential outcomes with societal benefit.

*Deadlines vary by target program.*

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## **NSF DCL: Bioinspired Design Collaborations to Accelerate the Discovery-Translation Process (BioDesign)**

This Dear Colleague Letter (DCL) [[NSF 23-055](#)] seeks to leverage current National Science Foundation (NSF) programs to:

- encourage early-stage, transdisciplinary collaboration of two or more investigators doing research in biological and engineering sciences with the potential for bioinspired design applications; and
- accelerate the translation of research findings into projects with potential societal and economic impacts that could be ready for commercialization.

*Deadlines vary by target program.*

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## NSF DCL: Research on Integrated Photonics Utilizing AIM Photonics Capabilities

This Dear Colleague Letter (DCL) [[NSF 23-054](#)] encourages exploratory and translational research proposals from academic researchers and small businesses on integrated photonics. Projects must use the fabrication process technologies of the American Institute of Manufacturing of Integrated Photonics.

*Deadlines vary by target program.*

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### NSF: Expanding AI Innovation through Capacity Building and Partnerships (ExpandAI) – 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.

**[Notify RCA](#) by April 5, 2023, 5pm, if you are interested in submitting to this program for the application window ending June 26, 2023.**

The National Science Foundation and its partners support the continued growth of a broad and diverse interdisciplinary research community for the advancement of AI and AI-powered innovation, providing a unique opportunity to broadly promote the NSF vision and core values, especially inclusion and collaboration. The Expanding AI Innovation through Capacity Building and Partnerships (ExpandAI) program [[NSF 23-506](#)] aims to significantly broaden participation in AI research, education, and workforce development through capacity development projects and through partnerships within the National AI Research Institutes ecosystem.

**LIMITED SUBMISSION:** An organization may submit one proposal per submission window.

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## **NSF: Safe Learning-Enabled Systems**

The objective of the Safe Learning-Enabled Systems program [[NSF 23-562](#)], which is a partnership between the National Science Foundation (NSF), Open Philanthropy, and Good Ventures, is to foster foundational research that leads to the design and implementation of learning-enabled systems in which safety is ensured with high levels of confidence.

*Deadline: May 26, 2023*

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## **Simons Foundation: Pivot Fellowships in Mathematics or Natural Sciences**

The Simons Foundation is now accepting applications for [its second class of Pivot Fellowships](#). The program provides funding for today's brightest minds to apply their talent and expertise to a new field in mathematics or the natural sciences.

Fellows will receive support for one year of training in their new field under a mentor, followed by the opportunity to apply for up to three years of research funding in the new discipline. Successful applicants will have a strong track record of success and achievement in their current field, and a deep interest, curiosity and drive to contribute to a new discipline.

The program is open to faculty in the natural sciences, mathematics, engineering, data science and computer science at academic institutions or equivalent positions elsewhere. The fellowships provide salary support as well as research, travel and professional development funding. In addition, mentors will receive a \$50,000 research fund. At the end of the fellowship year, fellows will be invited to apply for a 3-year research award in the new field for up to \$1.5 million over the 3-year period.

*Deadline: May 15, 2023*

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## **USDA-AFRI: Sustainable Agricultural Systems**

Applications to the Agriculture and Food Research Initiative - [Sustainable Agricultural Systems \(SAS\)](#) Request for Applications (RFA) must focus on approaches that promote

transformational changes in the U.S. food and agriculture system. NIFA seeks creative and visionary applications that take a systems approach for projects are expected to significantly improve the supply of affordable, safe, nutritious, and accessible agricultural products, while fostering economic development and rural prosperity in America. These approaches must demonstrate current needs and anticipate future social, cultural, behavioral, economic, health, and environmental impacts. Additionally, the outcomes of the work being proposed should result in societal benefits, including promotion of rural prosperity and enhancement of quality of life for all those involved in food and agricultural value chains from production to utilization and consumption.

The current RFA is seeking applications for integrated projects under two program areas:

**Sustainable Agricultural Systems [A9201]**

- Must include Research, Extension, and Education components
- Topics of interest under this program area include Climate-Smart Agriculture and Forestry; Strengthening the Bioeconomy, and Nutrition Security.

**Reducing Enteric Methane Emission from Ruminants [A9221]**

- Must include Research and Extension components

*Letters of Intent are due April 13, 2023*

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## **USDA-NIFA: Higher Education Challenge Grants Program**

Projects supported by the [Higher Education Challenge Grants Program](#) will:

1. address a state, regional, national, or international educational need;
2. involve a creative or non-traditional approach toward addressing that need that can serve as a model to others;
3. encourage and facilitate better working relationships in the university science and education community, as well as between universities and the private sector, to enhance program quality and supplement available resources; and
4. result in benefits that will likely transcend the project duration and USDA support.

*Deadline: April 28, 2023*

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## **USDA-NIFA: Supplemental and Alternative Crops**

The [Supplemental and Alternative Crops \(SAC\)](#) Competitive Grants Program will support projects that lead to expanded adaptation and increased acres in the United States of:

1. canola grown for oil, and
2. industrial hemp grown for value added products.

The SAC supports the breeding, testing, and development of superior performing canola and industrial hemp varieties and production practices that result in improved cost efficiencies, reduced grower risks, and wider use in production systems. Research results and technology developed are expected to be rapidly transferred to producers and other users through effective extension outreach and other engagement efforts.

*Letters of Intent are due April 6, 2023*



### 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 [ndsuh.researchdev@ndsuh.edu](mailto:ndsuh.researchdev@ndsuh.edu).

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

[Contact Us](#)





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*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.*