

RCA UPDATE

March 8, 2021

Funding Opportunity Edition

RCA Research Support Services Award Increase

Research Support Services Awards have been increased to a maximum of \$2,500 per request. These funds are to help defray the costs of support services required for research, creative, or scholarly activity. For example, funds may be used in one of the NDSU Core Facilities, another recharge / service center, or for transcription services. More information and application instructions are posted on the [RCA website](#). Please contact ndsuh.researchdev@ndsuh.edu with questions.

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 ndsuh.researchdev@ndsuh.edu.

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

- [DOE: Materials and Chemical Sciences Research for Direct Air Capture of Carbon Dioxide](#)
First to Notify; Agency deadline: 3/30/2021
- [NIH Research Education: Genomic Research for Data Scientists](#)
Notification Deadline: 03/09/2021
- [NIH Research Education: Enhancing STEM Educational Diversity](#)
Notification Deadline: 03/09/2021
- [NSF Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support](#)
Notification Deadline: 03/11/2021
- [NSF Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support - Coordination Office](#)
Notification Deadline: 03/11/2021
- [NSF LSAMP Regional Foundational and Forward-Thinking Educational Research Conferences](#)
Notification Deadline: 03/23/2021
- [NSF Scholarships in STEM Network](#)
Notification Deadline: 03/23/2021
- [NSF Research Traineeship \(NRT\) Program](#)
Notification Deadline: 04/07/2021

There are a number of limited submission grant programs with upcoming agency deadlines for which we did not receive any notifications of interest. For those interested in applying to the programs listed below, 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.

- [NIJ: Office of Violence Against Women](#)
Multiple programs; Agency deadlines vary
- [EPA: Water Infrastructure Workforce Development](#)
Agency deadline: 03/26/2021
- [NSF: Scholarships in STEM](#)
Agency deadline: 04/07/2021
- [NSF: Enabling Quantum Leap](#)
Agency deadline: 04/12/2021

- [NEA: Challenge America](#)
Agency deadline: 04/22/2021
- [NIH Research Education: Biomedical Engineering](#)
Agency Deadline: 04/26/2021
- [Arts Midwest: Grow, Invest, Gather](#)
Agency deadline: 05/03/2021
- [NEH: Challenge Grants](#)
Agency deadline: 05/18/2021
- [NIH: Collaborative Program for Multidisciplinary Teams](#)
Agency deadline: 05/27/2021

FUNDING OPPORTUNITIES

- [Dakota Cancer Collaborative on Translational Activity](#)
- [DARPA: Perceptually-enabled Task Guidance](#)
- [DoD: Army Research Institute for the Behavioral and Social Sciences BAA](#)
- [DoD: Defense University Research Instrumentation Program](#)
- [DOE: ARPA-E Open 2021](#)
- [DOE: Direct Air Capture of Carbon Dioxide](#)
- [FFAR: Rapid Outcomes from Agricultural Research](#)
- [Fulbright Scholar Program](#)
- [High Plains Intermountain Center for Agricultural Health and Safety: Pilot Grants](#)
- [Medica Foundation: Behavioral, Early Childhood, and Rural Health](#)
- [NASA: Research Opportunities in Space and Earth Sciences](#)
- [National Endowment for the Humanities](#)
- [NDSU Foundation Grants](#)
- [NIH: Firearm Injury and Mortality Prevention Research](#)
- [NIH: Informatics Methods and Algorithms for Cancer Research and Management](#)
- [NIH: Investigator-Initiated Research in Computational Genomics and Data Science](#)
- [NSF: CAREER](#)
- [NSF: Infrastructure Innovation for Biological Research](#)
- [NSF: Research Traineeship \(NRT\) Program](#)
- [NSF Scholarships in STEM Network](#)
- [USDA-NIFA-AFRI: Education and Workforce Development](#)

EVENTS

- [SBIR / STTR Informational Webinars](#)
- [NSF Workshops on Pandemic Prediction and Prevention](#)
- [Meeting Expectations of Funding Agencies: USDA](#)
- [NSF CAREER Proposal Development Program](#)
- [NDSU EXPLORE Showcase of Undergraduate Research and Creative Activity](#)

Looking for more funding opportunities?



On January 1, NDSU transitioned to a new funding opportunity database subscription: SPIN by InfoEd Global. SPIN is free for current NDSU faculty, staff, and students.

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

Dakota Cancer Collaborative on Translational Activity: Professional Development Core

The goal of the Dakota Cancer Collaborative on Translational Activity (DaCCoTA) is to stimulate growth of expertise and engagement in cancer-related clinical and translational research (CTR) in the Dakota region. The Professional Development Core is currently seeking proposals for the following funding mechanisms:

DaCCoTA Scholars Program - The purpose of this award is to stimulate the development of new CTR investigators. Awardees will receive salary support (50% FTE plus fringe) that guarantees a minimum of 50% protected research time for the project and up to \$50,000 in annual research support for up to 5 years. The DaCCoTA will provide the first three years of funding, and the final two years will be funded by the applicant's home institution (contingent on adequate progress). The DaCCoTA Scholars Program offers both a basic and community engagement track, and early career faculty are encouraged to apply.

Clinical Research Opportunities Program - This program provides 20% release time (up to NIH cap) to community-practicing, hospital-based clinicians to allow for participation in training activities and collaboration in cancer-focused CTR. The goal of the program is to begin to shift translational cancer research in the Upper Midwest to an enterprise informed by the patient. It is not intended that supported individuals will become full-time, independent investigators with funding for their own research projects. However, it is expected that providing an understanding of CTR and tools for identifying unmet medical needs will allow trained clinicians to become effective collaborators. Individuals may collaborate with both clinical and non-clinical scientists to help identify unmet clinical needs that can become the focus of translational research efforts.

Applications for each program can consider the multilevel manifestations of cancer (e.g. neurological, psychiatric), demographic risks, and social impact. Applications should focus on **T2-T4** translational research, although T1 studies will be considered if there is a clear plan to progress to T2-T4.

[The full RFAs are available on the Professional Development Core website.](#)

For additional information, please contact Christian Buresh (Christian.Buresh@usd.edu).

Letter of intent deadline: March 15, 2021

Invited full application deadline: April 15, 2021

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DARPA: Perceptually-enabled Task Guidance

On March 5, the Defense advanced Research Projects Agency (DARPA) posted a solicitation for innovative fundamental research proposals in the area of perceptually-enabled task guidance [[HR001121S0015](#)]. The goal is to create artificial intelligence technology that knows (i.e. creates and maintains a working representation) about physical tasks in real-time and can see what the user sees and hear what the user hears, and as result can catch mistakes, provide relevant information in context, and instruct when necessary. DARPA is soliciting these proposals for fundamental research to investigate innovative approaches that enable revolutionary advances in science. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

Abstract deadline: March 18, 2021

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DoD: Army Research Institute for the Behavioral and Social Sciences BAA

The Army Research Institute (ARI) is the Army's lead agency for the conduct of research, development, and analyses for the improvement of Army readiness and performance via research advances and applications of the behavioral and social sciences that address personnel, organization, and Soldier and leader development issues. Programs funded under this [Broad Agency Announcement \(BAA\)](#) include basic research, applied research, and advanced technology development that can improve human performance and Army readiness.

Topic areas of interest include:

- Understanding Team Dynamics;
- Improving Leadership and Leader Development;
- Identifying, Assessing, and Assigning Quality Personnel;
- Enhancing Lifelong Learning.

This BAA is open through April 29, 2023

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DoD: Defense University Research Instrumentation Program (DURIP)

This announcement [[N00014-21-SF002](#)] seeks proposals from universities to purchase equipment and instrumentation in support of research in areas of interest to the Department of Defense (DoD). DoD interests include the areas of research supported by the Army Research Office (ARO), the Office of Naval Research (ONR), and the Air Force Office of Scientific Research (AFOSR). A central purpose of the DURIP is to provide equipment and instrumentation to enhance research related education in areas of interest and priority to the DoD. Therefore, proposals must address the impact of the equipment or instrumentation on your institution's ability to educate students through research in disciplines important to DoD missions.

Full proposal deadline: May 14, 2021

Deadline for inquiries and questions: April 23, 2021

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DOE: ARPA-E Open 2021

This Funding Opportunity Announcement (FOA) [[DE-FOA-0002459](#)] marks the fifth OPEN solicitation in the history of ARPA-E. The previous OPEN solicitations were conducted at the inception of the agency in 2009 and again in 2012, 2015, and 2018. OPEN 2021 therefore continues the three-year periodic cycle for ARPA-E OPEN solicitations. An OPEN solicitation provides a vitally important mechanism for the support of innovative energy R&D that complements ARPA-E’s primary mechanism, which is through the solicitation of research projects in focused technology programs.

ARPA-E’s OPEN FOAs ensure that the agency does not miss opportunities to support innovative energy R&D that falls outside of the topics of the focused technology programs or that develop after focused solicitations have closed. OPEN FOAs provide the agency with a broad sampling of new and emerging opportunities across the complete spectrum of energy applications and allow the agency to “take the pulse” of the energy R&D community. OPEN FOAs have been and will continue to be the complement to the agency’s focused technology programs – a unique combination of approaches for supporting the most innovative and current energy technology R&D. For instance, one-third of the sixty examples of most successful ARPA-E projects featured in ARPA-E [Impact volumes](#) resulted from OPEN solicitations. Potential applicants to this FOA are strongly encouraged to examine the OPEN projects in these volumes and all of the projects supported in the previous four [OPEN solicitations](#) for examples of the creative and innovative R&D ARPA-E seeks in its OPEN solicitations.

Concept Paper deadline: April 6, 2021; 8:30am

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DOE: Materials and Chemical Sciences Research for Direct Air Capture of Carbon Dioxide – 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.

DOE Capture of Carbon Dioxide : Notify RCA if you are interested in submitting to this program. Approval to submit will be given to the first to notify.

The Department of Energy (DOE) Office of Science (SC) program in Basic Energy Sciences (BES) announces its interest in receiving applications from single investigators and from teams for support of experimental and theoretical efforts to advance fundamental understanding of the capture of carbon dioxide (CO₂) from dilute sources including combined capture and chemical conversion of CO₂ [DE-FOA-0002481]. Although direct air capture of carbon dioxide (DAC) generally refers to the capture of CO₂ from ambient air, this FOA also considers the removal of CO₂ from partially concentrated air (e.g., building HVAC exhaust) and from natural fluids (e.g., the ocean and surface waters) that received their CO₂ directly from ambient air. Enhanced understanding of scientific phenomena and approaches for DAC would accelerate progress and strengthen the foundation for applications that deliver economic benefit and / or energy security.

LIMITED SUBMISSION: Applicant institutions are limited to no more than two (2) pre-applications or applications as either a single-institution applicant or as the lead of a multi-institutional team.

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FFAR: Rapid Outcomes from Agricultural Research

The Foundation for Food and Agriculture Research (FFAR) Rapid Outcomes from Agricultural Research (ROAR) program deploys urgent funding to support research and outreach in response to emerging or unanticipated threats to the nation's food supply or

agricultural systems.

Plant and animal pests and pathogens can strike quickly, devastating crops, livestock and livelihoods. To address these outbreaks quickly, FFAR makes rapid grants through ROAR for research related to response, prevention or mitigation of new pests and pathogens. ROAR's one-year funding fills urgent research gaps until traditional, longer-term funding can be secured.

This program requires matching funds.

The ROAR program is open year-round.

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Fulbright Scholar Program

The [Fulbright U.S. Scholar Program](#) awards more than 800 fellowships annually. Over 400 different types of opportunities are available to teach, research, and conduct professional projects in more than 135 countries. Location and eligibility vary across all awards, and some awards may be restricted to certain career levels or types of scholars.

Deadline: September 15, 2021

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High Plains Intermountain Center for Agricultural Health and Safety: Pilot Grants

The High Plains Intermountain Center for Agricultural Health and Safety (HICAHS) [Pilot Grants Program](#) funds innovative research projects that promote worker health and safety in the agriculture, forestry, or fishing industries. Currently, HICAHS is seeking proposals for awards up to \$25,000 for the project period September 2021 - August 2022. Projects that directly impact the HICAHS region (Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming) are prioritized.

Deadline: June 1, 2021

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Medica Foundation: Behavioral, Early Childhood, and Rural Health

The Medica Foundation seeks to improve health by funding initiatives that are innovative in how care is delivered and have a high likelihood of creating long-term change. The Foundation's grant funding focuses on behavioral health initiatives, early childhood health, and rural health. The Foundation's primary service area is North Dakota, South Dakota, and Minnesota.

[Learn more about their currently open funding opportunities >>](#)

Deadlines vary by program area.

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NASA: Research Opportunities in Space and Earth Sciences (ROSES) 2021

The National Aeronautics and Space Administration (NASA) Science Mission Directorate (SMD) has released its annual NASA Research Announcement (NRA), [Research Opportunities in Space and Earth Sciences \(ROSES\) – 2021](#). ROSES is an omnibus NRA, with many individual program elements, each with its own due dates and topics. Topics include:

- [Materials Science](#)
- [Physical Sciences Informatics](#)
- [Biophysics](#)
- [Earth Science Applications: Ecological Forecasting](#)
- [Terrestrial Ecology](#)
- [Earth Science Applications: Water Resources](#)

[View a complete list of topics >>](#)

Application deadlines vary by program.

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National Endowment for the Humanities: Upcoming Deadlines

The National Endowment for the Humanities has multiple open funding opportunities with upcoming deadlines.

NEH Fellowships

This program supports individual scholars pursuing projects that embody exceptional research, rigorous analysis, and clear writing. Fellowships provide recipients time to conduct research or to produce books, monographs, peer-reviewed articles, e-books, digital materials, translations with annotations or a critical apparatus, or critical editions resulting from previous research.

Deadline: April 14, 2021

NEH-Mellon Fellowships for Digital Publication

This program supports individual scholars pursuing significant humanities projects that require digital expression and digital publication. Anticipated products must be published in digital form and include, but are not limited to, monographs, peer-reviewed articles, websites, virtual exhibitions, translations with annotations or a critical apparatus, or critical editions resulting from previous research.

Deadline: April 28, 2021

NEH Research and Development

The NEH Division of Preservation and Access is accepting applications for the Research and Development program. This program supports projects that address major challenges in preserving or providing access to humanities collections and resources.

Deadline: May 18, 2021

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.

Deadline: May 20, 2021

NEH Digital Humanities Advancement Grants

The NEH Office of Digital Humanities is accepting applications for the Digital Humanities Advancement Grants program. The program supports innovative, experimental, and / or computationally challenging digital projects at different stages of their lifecycles, from early start-up phases through implementation and sustainability. The program also supports scholarship that examines the history, criticism, and philosophy of digital culture

or technology and its impact on society.

Deadline: June 24, 2021



NDSU Foundation Grants

The NDSU Foundation is now accepting applications for their grant programs:

- **The Centennial Endowment** can provide maximum awards of \$5,000, with a total of \$22,000 available. This grant fund supports professorships, scholarships, biotechnology, faculty development, libraries, and cultural arts.
- **The Board of Trustees Endowment** can provide maximum awards of \$1,000, with a total of \$5,000 available. This grant fund supports general programs across campus.
- **The Library Endowment** has \$3,700 available to award. This grant fund supports requests from any academic unit on campus for materials that will enhance the collections and / or operations of university libraries.
- **The Gordon A. Larson Foundation Fund** has \$16,000 available to award. This grant fund supports competitive grants for agricultural research efforts conducted at North Dakota State University.
- **The Carl A. and Jean Y. White Memorial Endowment for Agriculture Research** has \$4,400 available to award. This grant fund supports faculty and research staff to encourage agricultural research initiatives.
- **The Engebretson Family Research Fund** has \$12,700 available to award. This grant fund is available every other year (odd years) and was established to support the advancement of pharmaceutical research by encouraging the discovery and development of new drug therapies and delivery systems.

[Learn more and apply >>](#)

Deadline: March 29, 2021



NIH: Firearm Injury and Mortality Prevention Research

Nearly 40,000 people in the U.S. die from firearm-related deaths each year, primarily from suicide (60%) or homicide (37%), and many more have experienced non-fatal firearm injuries, both intentional and nonintentional. The Joint Explanatory Statement accompanying the Consolidated Appropriations Act, 2021 ([Public Law 116-260](#)) included funding for the NIH to conduct research on firearm injury and mortality prevention and recommended that NIH take a comprehensive approach to studying the underlying causes and evidence-based methods of prevention of firearm injury, including crime prevention. Within the legislative mandates and limitations of NIH funding ([NOT-OD-21-058](#), [NOT-OD-21-056](#)), the NIH encourages research to improve understanding of the determinants of firearm injury, the identification of those at risk of firearm injury (including both victims and perpetrators), the development and piloting of innovative interventions to prevent firearm injury and mortality, and the examination of approaches to improve the implementation of existing, evidence-based interventions to prevent firearm injury and mortality.

- R01 (Clinical Trial Optional) - [PAR-21-192](#)
- R21 / R33 (Clinical Trial Optional) - [PAR-21-191](#)

Deadline: April 30, 2021

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NIH: Development of Innovative Informatics Methods and Algorithms for Cancer Research and Management (R21 Clinical Trial Optional)

The purpose of this Funding Opportunity Announcement (FOA) [[RFA-CA-21-013](#)] is to invite exploratory / developmental research grant applications (R21) for the development of innovative methods and algorithms in biomedical computing, informatics, and data science addressing priority needs across the cancer research continuum including cancer biology, cancer treatment and diagnosis, early cancer detection, risk assessment and prevention, cancer control and epidemiology, and / or cancer health disparities. As a component of the NCI's [Informatics Technology for Cancer Research](#) (ITCR) Program, this FOA encourages applications focused on the development of novel computational, mathematical, and statistical algorithms and methods that can considerably improve acquisition, management, analysis, and dissemination of relevant data and / or knowledge.

Deadline: June 8, 2021



NIH: Investigator-Initiated Research in Computational Genomics and Data Science (R21 Clinical Trial Not Allowed)

The purpose of this funding opportunity announcement (FOA) [[PAR-18-843](#)] is to invite applications for a broad range of research efforts in computational genomics, data science, statistics, and bioinformatics relevant to one or both of basic or clinical genomic science, and broadly applicable to human health and disease. This FOA supports fundamental genomics research developing innovative analytical methodologies and approaches, early stage development of tools and software, and refinement or hardening of software and tools of high value to the biomedical genomics community. Work supported under this FOA should be enabling for genomics and be generalizable or broadly applicable across diseases and biological systems. All applications should address how the methods would scale to address larger and larger data sets.

Deadline: July 16, 2021



NSF: Faculty Early Career Development Program

The National Science Foundation (NSF) Faculty Early Career Development ([CAREER](#)) Program is a prestigious grant award program that supports early career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research.

Deadline: July 26, 2021

The NDSU Office of Research and Creative Activity is offering some NSF CAREER-focused, virtual sessions over the next couple of months to assist potential applicants with preparing competitive proposals. [Learn more >>](#)



NSF: Infrastructure Innovation for Biological Research

The National Science Foundation Division of Biological Infrastructure has an open solicitation for innovation in biological research [[NSF 21-502](#)].

Programmatic areas include:

Innovation: Research Methods

The Research Methods Programmatic Area supports the design of novel and innovative laboratory- or field-based methodologies with the potential for a transformative impact, enabling new and important insights into biological processes and with the potential to be broadly applicable in biology. Proposed projects may include methods for the field or laboratory related to any biological phenomena or process.

Innovation: Bioinformatics

The Bioinformatics Programmatic Area supports the design of novel and innovative bioinformatics approaches that have the potential to become part of the cyberinfrastructure that will advance or transform biological understanding and that has the potential to be broadly applicable in biology. Proposed projects may be focused on any biological process that will be better understood through the development of computational tools and approaches to acquire, model, or analyze biological information.

Innovation: Instrumentation

The Instrumentation Programmatic Area supports the design of novel and innovative instrumentation and associated methods that address a clearly defined gap in biologists' ability to capture observations of biological phenomena and that have the potential to be broadly applicable in biology. Proposed projects may include instrumentation for observing any level of biological phenomena, and may propose either new and innovative instrumentation; instrumentation that significantly improves the accuracy, resolution, or throughput of data capture; or advancements that reduce costs of instrument construction or operation.

Proposals to this program are accepted at any time.

NSF: NSF Research Traineeship (NRT) – 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.

NSF NRT : Notify RCA by 04/07/2021, 5:00 p.m. if you are interested in submitting to this program or planning to be part of a collaborative submission to this program.

The National Science Foundation (NSF) Research Traineeship (NRT) program [[NSF 21-536](#)] is designed to encourage the development and implementation of bold, new, and potentially transformative models for STEM graduate education training. The NRT program seeks proposals that explore ways for graduate students in research-based masters and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The program is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. The NRT program addresses workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged.

The next agency deadline for this program is September 6, 2021.

LIMITED SUBMISSION: An eligible organization may participate in only two (2) proposals per NRT competition as lead or collaborative non-lead. All Track 1 and / or Track 2 NRT proposals will be counted toward this total limit of two proposals per organization. **Participation includes serving as a lead organization or non-lead organization on any proposal.** Organizations participating only as evaluators on projects are excluded from this limitation.

NSF: Scholarships in STEM Network – 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.

NSF S-STEM-Net : Notify RCA by 03/23/2021, 5:00 p.m. if you are interested in submitting to this program or planning to be part of a collaborative submission to this program.

Through this solicitation [[NSF 21-569](#)], the National Science Foundation (NSF) seeks to foster a network of S-STEM stakeholders and further develop the infrastructure needed to generate and disseminate new knowledge, successful practices and effective design principles arising from NSF S-STEM projects nationwide. The ultimate vision of the legislation governing the S-STEM parent program (and of the current S-STEM-Net solicitation) is that all Americans, regardless of economic status, should be able to contribute to the American innovation economy if they so desire.

To support collaboration within the S-STEM network, NSF will fund two types of investments: An S-STEM Resource and Evaluation Center (S-STEM-REC) and several S-STEM Research Hubs (S-STEM-Hub). The S-STEM Network (S-STEM-Net) will collaborate to create synergies and sustain a robust national ecosystem consisting of multi-sector partners supporting domestic low-income STEM students in achieving their career goals, while also ensuring access, inclusion, and adaptability to changing learning needs. This network will also synthesize current achievements and investigate evolving barriers to the success of this student population. It will also disseminate the context and circumstances by which interventions and practices that support graduation of domestic low-income students pursuing careers in STEM are successful.

For both the S-STEM REC and S-STEM Hubs, the lead organization must demonstrate significant experience with the S-STEM program, support of domestic low-income students in STEM, and / or management of services similar to those proposed.

LIMITED SUBMISSION: An Institution may submit one S-STEM-REC proposal (as a single institution, a subawardee, or a member of a collaborative research project), and an Institution may submit at most one S-STEM-Hub proposal (as a single institution, a subawardee, or a member of a collaborative research project).

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USDA-NIFA-AFRI: Education and Workforce Development

The Agriculture and Food Research Initiative (AFRI) - [Education and Workforce Development \(EWD\) program](#) focuses on developing the next generation of research, education, and extension professionals in the food and agricultural sciences. In FY 2021, EWD invites applications in seven areas:

1. agricultural workforce training;
2. professional development for agricultural literacy;
3. training of undergraduate students in research and extension;
4. fellowships for predoctoral candidates;
5. fellowships for postdoctoral scholars;
6. a new program for food and agricultural non-formal education; and
7. a FY 2021-only program for evaluation of NIFA's agricultural literacy and workforce development portfolio.

Deadline: July 1, 2021

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SBIR / STTR Webinars from SHARPhub

[SHARPhub](#), an NIH-funded program to assist in translating bioscience discoveries into startup companies, is offering multiple free webinars on SBIR / STTR programs.

Cuss and Discuss - March 12 from 9 to 10:30 am CST

Meet others planning to submit SBIR / STTR proposals to NIH, sharing challenges and learning from others.

REGISTER: <https://bit.ly/371phUf>

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NSF Workshops on Pandemic Prediction and Prevention

The Directorates for Biological Sciences (BIO); Computer Information Science and Engineering (CISE); Engineering (ENG); Social, Behavioral and Economic Sciences (SBE); and the Office of International Science and Engineering (OISE) at the National Science Foundation (NSF) are jointly supporting a series of interdisciplinary workshops to engage research communities around the topic of **Predictive Intelligence for Pandemic Prevention**. These workshops bring together interdisciplinary experts in the **biological, engineering, computer, and social and behavioral sciences** to start conversations and catalyze ideas on how to advance scientific understanding beyond state-of-the-art in pre-emergence and emergence forecasting, real-time monitoring, and detection of inflection point events in order to prevent and mitigate the occurrence of future pandemics.

Each of these workshops is expected to have up to 50 invited active participants. The community can participate in a listen-only mode and interact through chat and Q&A functions.

March 22-23, 2021: Examining how human attitudes, social behavior, and the drivers underlying both contribute to disease transmission through their determination of policy and behavioral obstacles and supports.

[Learn more and register to attend >>](#)

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Proposal Development Virtual Program: Meeting Expectations of Funding Agencies - USDA

The Proposal Development Program provides professional development opportunities for faculty, staff, and graduate students who are new to proposal writing or are seeking a refresher about proposal writing skills and funding agency opportunities. This semester, these sessions will be held virtually on Zoom.

Meeting Expectations of Funding Agencies: USDA

Wednesday, March 24, 2020 | 12-1pm

Presenter: Christine Strohm, Ph.D., Grant Writing Consultant

[Register for this session >>](#)

Zoom access information will be shared with registrants.

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NSF CAREER Proposal Development Program

The National Science Foundation (NSF) Faculty Early Career Development ([CAREER](#)) Program is a prestigious grant award program that supports early career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research.

The NDSU Office of Research and Creative Activity is offering some NSF CAREER-focused, virtual sessions over the next couple of months to assist potential applicants with preparing competitive proposals.

- **Introduction to the NSF CAREER Program [March 30, 2021 - 12pm (noon)]**
This session will include an overview of the NSF CAREER program, proposal requirements, planning for an application, and opportunities for Q&A.
Presenter: Christine Strohm, Ph.D. - grant writing consultant
- **Broader Impacts and Intellectual Merit [April 14, 2021 - 12pm (noon)]**
This session will focus on NSF's [merit review criteria](#), and how to effectively address them in your CAREER proposal.
Presenter: Christine Strohm, Ph.D. - grant writing consultant
- **NSF CAREER Awardee Panel [April 28, 2021 - 12pm (noon)]**
For this session, four recent NSF CAREER awardees at NDSU will share their experiences and offer their tips for writing a successful proposal and answer your questions about the process.
Presenters:
Britt Heidinger, Ph.D. - Biological Sciences
Ying Huang, Ph.D. - Civil and Environmental Engineering
Dmitri Kilin, Ph.D. - Chemistry and Biochemistry
Keerthi Nawarathna, Ph.D. - Electrical and Computer Engineering

[Register to attend these sessions >>](#)



Registration is open for undergraduate students interested in presenting their research and creative activity projects at the annual NDSU EXPLORE event. This year's showcase will be virtual and held during Undergraduate Research Week, April 19-23. **The deadline for registration is March 31, 2021.**

Details can be found on the [NDSU EXPLORE](#) website. If you have any questions about this event, please send an email to ndsuh.researchdev@ndsuh.edu.



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.