Funding Opportunity Edition

Call for White Papers:  
Corrosion Control and  
Innovative Coating Systems and Applications  
Deadline: June 1, 2022

NDSU faculty and research teams have an opportunity to work on an anticipated NDSU program with the Army’s Construction Engineering Research Laboratory (CERL) on R&D related to two BAA areas:

1. Corrosion Control  
2. Innovative Coating Systems and Applications

This call for white papers is for potential seed funding to generate research programs relevant to these BAA areas. The long-term goal is to develop productive collaborations to advance research in the identified areas and increase the competitiveness of teams to build research capacity.

It is anticipated that projects will be funded for a 2-year duration. Project funding can be up to $300,000 total cost (direct and indirect).

Learn more and read the white paper requirements [here](#).

White papers must be submitted to ndsu.researchdev@ndsu.edu by June 1, 2022.
RCA Equipment Repair Match Funding

The Research and Creative Activity Office has a small pool of funds available to provide match to researchers for equipment repair that can be completed by June 15, 2022. If interested in accessing these funds, submit a request and please include:

- details of the equipment to be repaired,
- its use (departmental, college, institution-wide), and
- an estimate / quote of the repair cost.

For departmental / unit requests, priority will be given to equipment that is used by multiple researchers and that has a match of at least 33%. For Service / Recharge Centers and Core Facilities, priority will be given to requests that have at least a 50% match. **Funds must be spent no later than June 15, 2022.**

Please submit your request to Becky Hellman Tangen (becky.hellman@ndsu.edu).

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**FUNDING OPPORTUNITIES**

- DEPSCoR: Research Collaboration
- DoD: Advanced Manufacturing
- FFAR: Food Waste Challenge
- FFAR: Harvest for Health
- Fulbright Scholars Awards
- NEH: Public Humanities Projects
- NIH: COVID-19 Mental Health Research
- NIH: Director’s Transformative Research Awards
- NIH: Dissemination and Implementation Research in Health
- NSF DCL: Social Science Research Council Partnership / Impact of Public Health Guidance
- NSF: Decision, Risk and Management Sciences
- NSF: Hydrologic Sciences
- NSF: Plant Genome Research Program
- NSF: Science and Technology Studies
- NSF: Traineeships and Research Experiences for Students and Teachers
- RWJF: Culture of Health
- USDA: Education and Workforce Development
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 by close of business on the notification deadline.

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

- NIH: Director's Early Independence Award  
  Notification Deadline: 05/25/2022
- NIH: Bridges to the Baccalaureate  
  Notification Deadline: 06/15/2022
- NIH: Bridges to the Doctorate  
  Notification Deadline: 06/15/2022

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

- NIH: Research Experience in Genomic Research for Data Scientists  
  Deadline: 05/25/2022
- NIH: Undergraduate Research Training Initiative for Student Enhancement  
  Deadline: 05/26/2022
- NIH: Team-based Design in Biomedical Engineering Education  
  Deadline: 05/30/2022
- USDA-NIFA: American Rescue Plan Technical Assistance Investment Program  
  Deadline: 06/01/2022
• NIH: Asthma and Allergic Diseases Cooperative Research Centers
  Deadline: 06/03/2022

• USDA-NIFA: Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers and Veteran Farmers and Ranchers
  Deadline: 06/08/2022

• NIH: Genome Research Experiences to Attract Talented Undergraduates into Genomic Fields to Enhance Diversity
  Deadline: 07/01/2022

• WTGrant Scholars: Improving the Lives of Youth in the U.S.
  Deadline: 07/06/2022

• NIH: Faculty Institutional Recruitment for Sustainable Transformation Cohort
  Deadline: 07/12/2022

• NIH: Science Education Partnership Award
  Deadline: 07/13/2022

• NSF: IUSE / Professional Formation of Engineers (one slot available)
  Deadline: 07/18/2022

• Breast Cancer Alliance: Young Investigator Grants
  Deadline: 07/22/2022

• NSF: Physics Frontiers Centers
  Pre-application Deadline: 08/01/2022

• NSF: Resilient & Intelligent NextG Systems
  Deadline: 08/01/2022

• NSF: Research Traineeship (one slot available)
  Deadline: 09/06/2022

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.
DEPSCoR: Research Collaboration
The Department of Defense (DoD) announces the fiscal year 2022 (FY22) Defense Established Program to Stimulate Competitive Research (DEPSCoR) – Research Collaboration (RC).

This funding opportunity [FOA-AFRL-AFOSR-2022-0006] aims to create basic research collaborations between a pair of researchers, namely 1) Applicant / Principal Investigator (PI), a full-time faculty member who has never served as a PI on a prior DoD directly funded research Prime award and 2) Collaborator / co-Principal Investigator (co-PI), an investigator who will provide mentorship to the Applicant and has served as a PI on a DoD directly funded research Prime award active between 1 October 2015 and 30 September 2022. This structure is aimed at introducing potential applicants to the DoD’s unique research challenges and its supportive research ecosystem.

White paper deadline: September 19, 2022

DoD ONR: Science & Technology for Advanced Manufacturing Projects
The focus of this Broad Agency Announcement (BAA) [N00014-22-S-B002] is primarily on projects that continue to advance the systems engineering approach needed for the design, fabrication, and manufacture of structural components to address challenges in system weight, performance, affordability, and / or survivability. The foundation of this approach should include the integration of materials information, captured in computational tools, with engineering product performance analysis and manufacturing-process simulation termed commonly as Integrated Computational Materials Engineering (ICME). From this foundation it is expected the integration of manufacturing process information and product performance information utilizing the full range of engineering and analytical tools, processes, and principles to improve efficiency and effectiveness of their integrated approach. The intent is to bring together materials designers, materials suppliers, product designers, and manufacturers to collaborate on the design, production, and commercialization of novel affordable, manufacturable systems. Projects may include basic and applied research, technology and component development, and prototyping, but may also focus on manufacturing supply-chain technical support and integration,
workforce development, and manufacturing education.

Prior to preparing proposals, potential offerors are strongly encouraged to contact the ONR technical point of contact identified for this program.

This BAA will remain open through November 30, 2022

**FFAR: Food Waste Challenge**

Food waste represents not only the loss of nutrients but a waste of valuable resources, which puts significant strains on the environment, economy and society. While current efforts to address food waste is hampered by multiple obstacles to accurate measurement, it is estimated that over a third of US food waste happens in households.

The Foundation for Food & Agriculture Research (FFAR), in collaboration with The Kroger Co. Zero Hunger | Zero Waste Foundation, is launching the Food Waste Challenge to develop an original, innovative methodology for regularly occurring quantitative measurement of food waste generated in US households that stakeholders across the food system can use.

Food waste occurs for numerous reasons and at various levels throughout the food system, which makes tackling the problem especially challenging. FFAR will prioritize innovative projects that emphasize a commitment to the collaboration of researchers and practitioners across multiple sectors and disciplines.

*Deadline: July 13, 2022*

**FFAR: Harvest for Health**

The Foundation for Food and Agriculture Research (FFAR) partnered with the Global Alliance for Improved Nutrition (GAIN) to launch Harvest for Health initiative to accelerate the development of underutilized crops, increasing the diversity of foods in the marketplace. The model developed through this initiative will predict underutilized crops’ potential as sources of functional and nutritious ingredients that could replace, complement or aid in reformulating the existing food products or developing new ones.
In the current stage of the Breakthrough Crop Challenge, proposers can submit an application for seed funding of up to $75,000. Learn more >>

Deadline: July 20, 2022

Fulbright Scholar Awards

The Fulbright U.S. Scholar Program offers over 400 awards in more than 130 countries for U.S. citizens to teach, conduct research and carry out professional projects around the world. College and university faculty, as well as artists and professionals from a wide range of fields are eligible to apply.

There are multiple types of awards, but Fulbright Scholar Awards comprise the bulk of awards offered and include opportunities for professionals, artists, and scholars at all career-levels. Location and eligibility vary across all awards, and some awards may be restricted to certain career levels or types of scholars. Please see here for three unique opportunities within the U.S. Scholar program:

- Global Scholar Award
- Public Policy Fellowship
- Arctic Initiative

Deadline: September 15, 2022

NEH: Public Humanities Projects

The Public Humanities Projects program supports projects that bring the ideas of the humanities to life for general audiences through public programming. Projects must engage humanities scholarship to analyze significant themes in disciplines such as history, literature, ethics, and art history. Awards support projects that are intended to reach broad and diverse public audiences in non-classroom settings in the United States. Projects should engage with ideas that are accessible to the general public and employ appealing interpretive formats.
Public Humanities Projects supports projects in three categories (Exhibitions, Historic Places, and Humanities Discussions), and at two funding levels (Planning and Implementation). Proposed projects may include complementary components: for example, a museum exhibition might be accompanied by a website or mobile app.

Project topics may be international, national, regional, or local in focus, but locally focused projects should address topics that are of regional or national relevance by drawing connections to broad themes or historical questions. Projects that don’t address issues of concern to wider regional or national audiences might consider local sources of funding, such as their state humanities councils. Award amounts offered to successful applicants will reflect the project’s scope and the size of its expected audiences.

Optional draft deadline: July 6, 2022
Full application deadline: August 10, 2022

NIH NIMH: Urgent Award: COVID-19 Mental Health Research (R01 Clinical Trial Optional)

The National Institute of Mental Health (NIMH) is issuing this Funding Opportunity Announcement (FOA) [PAR-22-113] in response to the declared public health emergency issued by the Secretary, HHS, for 2019 Novel Coronavirus (COVID-19). See "Determination that a Public Health Emergency Exists Nationwide as the Result of the 2019 Novel Coronavirus" as renewed in "Renewal of the Determination that a Public Health Emergency Exists Nationwide as the Result of the Continued Consequences of Coronavirus Disease 2019 (COVID-19) Pandemic". This FOA aims to address urgent, time-sensitive mental health research questions related to COVID-19, including broader secondary impacts of the pandemic as well as research on the intersection of mental health, COVID-19, and HIV. Research supported will improve public health in the near term by informing responses to the current pandemic through

1. understanding mechanisms by which mental illness impacts SARS-CoV-2 morbidity and mortality,
2. exploring how COVID-19 contributes to incident mental illness or HIV-outcomes,
3. identifying modifiable targets uniquely or robustly implicated in the pandemic that are relevant to new and worsening mental illness, and
4. conducting mechanistic trials probing biological or behavioral processes of those targets that may be pursued in future mental health therapeutic development.
Research is anticipated to be informed by and directed towards vulnerable populations based on evidence of preexisting and worsened health disparities.

Upcoming deadlines: August 25, 2022; December 23, 2022

NIH: Director’s Transformative Research Awards (R01 Clinical Trial Optional)
The NIH Director’s Transformative Research Award Program supports individual scientists or groups of scientists proposing groundbreaking, exceptionally innovative, original, and/or unconventional research with the potential to create new scientific paradigms, establish entirely new and improved clinical approaches, or develop transformative technologies. For the program to support the best possible researchers and research, applications are sought which reflect the full diversity of the nation’s research workforce. Individuals from diverse backgrounds, including those from underrepresented groups [see Notice of NIH’s Interest in Diversity, NOT-OD-20-031] are strongly encouraged to apply to this Funding Opportunity Announcement [RFA-RM-22-020]. In addition, applications are welcome from the full spectrum of eligible institutions in all geographic locations and in all topic areas relevant to the broad mission of NIH, including, but not limited to, behavioral, social, biomedical, applied, and formal sciences and topics that may involve basic, translational, or clinical research. No preliminary data are required. Projects must clearly demonstrate, based on the strength of the logic, a compelling potential to produce a major impact in a broad area of relevance to the NIH. The NIH Director’s Transformative Research Award is a component of the High-Risk, High-Reward Research (HRHR) Program of the NIH Common Fund.

Deadline: September 1, 2022

NIH: Dissemination and Implementation Research in Health
The purpose of these Funding Opportunity Announcements (FOAs) is to support studies that will identify, develop, and/or test strategies for overcoming barriers to the adoption, adaptation, integration, scale-up, and sustainability of evidence-based interventions, practices, programs, tools, treatments, guidelines, and policies. Studies that promote
equitable dissemination and implementation of evidence-based interventions among underrepresented communities are encouraged. Conversely, there is a benefit in understanding circumstances that create a need to stop or reduce (“de-implement”) the use of practices that are ineffective, unproven, low-value, or harmful. In addition, studies to advance dissemination and implementation research methods and measures are encouraged. Applications that focus on re-implementation of evidence-based health services (e.g. cancer screening) that may have dropped off amidst the ongoing COVID pandemic are encouraged.

- PAR-22-105, R01 Research Project
- PAR-22-106, R03 Small Research Grants
- PAR-22-109, R21 Exploratory / Developmental Grants

Standard deadlines apply; deadlines fall in February, June, and October each year.

NSF DCL: National Science Foundation and the Social Science Research Council Partnership to Advance Scientific Knowledge about the Impact of Public Health Guidance

With this Dear Colleague Letter (DCL), the Directorate for Social, Behavioral and Economic Sciences (SBE) of the National Science Foundation (NSF) notifies the research community of a collaboration with the Social Science Research Council (SSRC) on a coordinated effort to identify and jointly support research that advances knowledge about the impact of public health guidance.

SSRC is a private foundation based in Brooklyn, NY, that collaborates with the Rockefeller Foundation, the Robert Wood Johnson Foundation, the Alfred P. Sloan Foundation, Craig Newmark Philanthropies and other private foundations to fund research focused on advancing scientific knowledge about public health guidance. It "fosters innovative research, nurtures new generations of social scientists, deepens how inquiry is practiced within and across disciplines, and mobilizes necessary knowledge on important public issues."

Across the country, public- and private-sector decision makers are working to improve the situation for those who face public health challenges. Many seek ways to improve the
impact of public health guidance to promote the health and well-being of individuals and the broader society at the community, regional, national and global levels. What steps can be taken to improve the use, usefulness and impact of basic science-based public health information?

To help focus research on what we know and can learn about how individuals, groups and institutions make decisions related or in response to public health issues, NSF is partnering with the SSRC in a collaboration called "Advance Scientific Knowledge about the Impact of Public Health Guidance."

Learn more >>

NSF: Decision, Risk and Management Sciences

The Decision, Risk and Management Sciences (DRMS) program [PD 98-1321] supports scientific research directed at increasing the understanding and effectiveness of decision making by individuals, groups, organizations, and society. DRMS supports research with solid foundations in theories and methods of the social and behavioral sciences. This social and behavioral research advances knowledge, addresses fundamental scientific and societal issues, and has strong broader impacts. DRMS funds disciplinary and interdisciplinary research, doctoral dissertation research improvement grants (DDRIGs), and conferences in the areas of judgment and decision making; decision analysis and decision aids; risk analysis, perception, and communication; societal and public policy decision making; management science and organizational design.

Deadlines: August 18, 2022; January 17, 2023

NSF: Hydrologic Sciences

The Hydrologic Sciences Program [NSF 22-540] is a disciplinary program within the Division of Earth Sciences. Hydrologic science has a distinct focus on continental water processes at all scales, and the program supports research with a primary focus on these processes. The program supports fundamental research about water on and beneath the Earth’s surface, as well as relationships of water with material and living components of the environment. A major focus is the study of hydrologic processes (e.g., rainfall and
runoff; infiltration and subsurface flow; evaporation and transpiration), as well as fluxes of water (e.g. in soils, aquifers, and streams). Many projects involve the study of hydrologic transport (e.g., of dissolved solutes, sediment), coupling of hydrological processes with other systems (e.g., ecosystem processes, geochemical cycles, food and energy systems, socio-ecological systems), or hydrologic responses to change (e.g., changes in land use, climate, or watershed management). Observational, experimental, theoretical, and modeling approaches are supported.

Full proposals accepted anytime.

NSF: Plant Genome Research Program
The Plant Genome Research Program (PGRP) [NSF 21-507] 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.

Full proposals are accepted anytime.

NSF: Science and Technology Studies
The Science and Technology Studies (STS) program [NSF 19-610] supports research that uses historical, philosophical, and social scientific methods to investigate the intellectual, material, and social facets of the scientific, technological, engineering and mathematical
(STEM) disciplines. It encompasses a broad spectrum of topics including interdisciplinary studies of ethics, equity, governance, and policy issues that are closely related to STEM disciplines.

*Deadline: August 3, 2022; February 2, 2023*

**NSF: Traineeships and Research Experiences for Students and Teachers**
The National Science Foundation (NSF) has a number of funding programs aimed at training and / or providing research experiences to both students and K-12 teachers.

- NSF Research Traineeship [NSF 21-536] – LIMITED
  *Notify ndsu.researchdev@ndsu.edu if you are interested in applying to this program.*
- Research Experiences for Teachers Sites in Biological Sciences [NSF 21-584]
  *Deadline: July 31, 2022*
- Innovative Technology Experiences for Students and Teachers [NSF 22-585]
  *Deadline: August 12, 2022*
- Research Experiences for Undergraduates [NSF 19-582]
  *Deadline: August 24, 2022*
- International Research Experiences for Students [NSF 20-598]
  *Deadline: September 20, 2022*
- Research Experiences for Teachers in Engineering and Computer Science [NSF 21-606]
  *Deadline: October 12, 2022*

Many of these programs also have mechanisms for supplemental funding to existing awards; [see list](#).
equity in the future. The Foundation is interested in ideas that address any of these four areas of focus:

1. Future of Evidence;
2. Future of Social Interaction;
3. Future of Food;

Additionally, the Foundation welcomes ideas that might fall outside of these four focus areas, but which offer unique approaches to advancing health equity and progress toward a Culture of Health.

**USDA: 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 2022, 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; and
6. special workforce development topics.

*Deadlines vary by program area.*

**USDA: Foundational and Applied Science**

The Agriculture and Food Research Initiative (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:

1. Plant Health and Production and Plant Products;
3. Food Safety, Nutrition, and Health;
4. Bioenergy, Natural Resources, and Environment;
5. Agriculture Systems and Technology; and
6. Agriculture Economics and Rural Communities.

*Deadlines vary by program area.*

**USDA: Supplemental and Alternative Crops**

On May 13, USDA published a funding opportunity announcement for the **Supplemental and Alternative Crops (SAC)** Competitive Grants Program. SAC will support projects that lead to expanded adaptation and increased acres in the United States of canola grown for oil and 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.

*Notifications of Intent are requested by June 7, 2022, but are not required.*
Applications are due June 29, 2022.

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

[Contact Us]
The Office of Research and Creative Activity (RCA) sends weekly emails to NDSU faculty and staff to provide current information on various topics including funding opportunities, grant program changes, research resources, deadlines, notices, and training.

You are receiving this notification through the NDSU official employee listserv or sub-list. The official listserv refreshes after each pay period.

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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.