Congratulations to all award recipients from April!

View the complete list online:  PDF | Excel

The awards listed are externally funded projects. Each month one of the RCA Updates will include prior month awards.

See Award Reports from previous months >>

Innovation and Economic Development Executive Director Candidate Open Forum

This week, RCA has a candidate interviewing for the executive director position of the Innovation and Economic Development team. This person will provide vision and leadership for NDSU's industry engagement, tech transfer, commercialization and licensing activities as well as the potential of those activities to advance economic development. Review the candidate's CV and get information about the open forum here.
Upcoming Events

- RCA Innovation and Economic Development Executive Director Open Forum - Michael Doyle, PhD
  June 14, 2022 - 1:30pm / Learn more >>
- NSF Webinar: Creating a New Field of Study - Integration and Implementation Science
  June 16, 2022 - 6pm / Join Zoom >> [Passcode: GCR]
- DARPA Forward Regional Events on National Security Innovation
  Registration open June 1 / Learn more >>
- DEPSCoR Day at University of South Dakota
  July 19, 2022 / Learn more >>
- REGISTRATION OPEN: AICoRN Summit & DaCCoTA Symposium
  August 4-5, 2022 / Learn more >>

FUNDING OPPORTUNITIES

- DoD: C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research, Cryogenics & Quantum
- DOE: EnergyShed – Exploring Place-Based Generation – LIMITED
- FFAR: Rapid Outcomes from Agricultural Research
- Library of Congress: Community Collections grants to Organizations – LIMITED
- Library of Congress: Connecting Communities Digital Initiative – LIMITED
- NEH: Archaeological and Ethnographic Field Research
- NEH: Dialogues on the Experience of War
- NEH: Infrastructure and Capacity Building Grants – LIMITED
- NIH NOSI: Pain, Pain Management, and Opioids in Aging
- NIH: NIDA, NIMH, and NINDS Research Opportunities for New and "At-Risk" Investigators
- NIH: Polysubstance use in Addiction
- NSF DCL: Advancing Educational Innovations and Broadening Participation in STEM with Blockchain Technology
- NSF DCL: Stimulating Integrative Research in Computational Cognition
- NSF: Research Experiences for Undergraduates
- NSF: Smart and Connected Communities
• NVIDIA: Grant Programs to Advance Research  
• Simons Foundation: Targeted Grants in Mathematics and Physical Sciences  
• USDA: Urban, Indoor, and Emerging Agriculture  
• W.T. Grant Foundation: Partnerships to Reduce Inequality in Youth Outcomes

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.

- **DOE EnergyShed**
  First to Notify
- **LOC: Community Collections**
  First to Notify
- **DOE: RENEW - Basic Energy Sciences**
  Notification Deadline: 06/14/2022
- **DOE: RENEW - High Energy Physics**
  Notification Deadline: 06/14/2022
- **NIH: Bridges to the Baccalaureate**
  Notification Deadline: 06/15/2022
- **NIH: Bridges to the Doctorate**
  Notification Deadline: 06/15/2022
- **NEH: Infrastructure and Capacity Building Challenge Grants**
  Notification Deadline: 06/21/2022
- **LOC: Connecting Communities Digital Initiative**
  Notification Deadline: 06/30/2022

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.

- **DOE: RENEW - Earth and Environmental Sciences**  
  **Deadline:** 06/29/2022

- **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

- **NEA: Our Town**  
  **Deadline:** 08/04/2022

- **NIH: Director’s Early Independence Award**  
  **Deadline:** 09/02/2022

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**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.
DoD: C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research, Cryogenics & Quantum

The Naval Information Warfare Center, Pacific (NIWC Pacific) is soliciting white papers and proposals for areas relating to the advancement of Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems. This BAA [N66001-22-S-4703] is for procurement contracts, grants, cooperative agreements, and other transactions. Proposed research should investigate unique and innovative approaches for defining and developing next generation integratable C4ISR capabilities and command suites.

This BAA is open through June 2023

DOE: EnergyShed – Exploring Place-Based Generation – 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 EnergyShed: Applications are due to DOE by August 1, 2022. Notify RCA if you are interested in submitting to this program. Approval to submit will be given to the first to notify.
The U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE) is issuing this funding opportunity announcement (FOA) [DE-FOA-0002565] to invest in innovative research, development, and demonstration (RD&D) projects that accelerate the large-scale development and deployment of renewable energy to support an equitable transition to a decarbonized electricity system by 2035 and net-zero emissions economy by 2050. The goal of this funding opportunity is to develop the tools and processes to help a broad set of stakeholders including utilities, local governments, and community-based organizations; understand the implications and participate in the development of locally-based energy generation in their community. To achieve this goal, applicants will assimilate data from a variety of sources into novel tools, “dashboards,” or other applications that will assess the impacts and tradeoffs, including potential benefits and challenges of locally-based energy generation. These tools should be accessible and easy-to-use to a wide array of stakeholders that are not necessarily electric power system experts. Achievement of this goal should accelerate deployment of renewable energy towards an equitable de-carbonized grid, and it will come through pursuit of several concurrent objectives in successful system design.

**LIMITED SUBMISSION:** An entity may only submit one application to this FOA.

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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.
Library of Congress: Community Collections grants to Organizations – 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.

LOC Community Collections: Applications are due to LOC by August 1, 2022. Notify RCA if you are interested in submitting to this program. Approval to submit will be given to the first to notify.

Through a gift from the Andrew W. Mellon Foundation, the Library of Congress (LOC) will support a multiyear initiative that entails public participation in the creation of archival collections [030ADV22R0061]. Specifically, the LOC seeks to award grants to support contemporary cultural documentation focusing on the culture and traditions of diverse, often underrepresented communities in the United States. These projects will result in archival collections preserved at the American Folklife Center and made accessible through the Library of Congress’ website. The major goals of this grant program are to enable communities to document their cultural traditions, practices, and experiences from their own perspectives, while enhancing the Library’s holdings with materials featuring creativity and knowledge found at the local level. As such, successful proposals will come from applicants within or closely affiliated with the community they propose to document.

LIMITED SUBMISSION: An eligible applicant organization may submit only one application under this announcement.
Library of Congress: Connecting Communities Digital Initiative – 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.

LOC Connecting Communities: Notify RCA by 06/30/2022, 4pm, if you are interested in submitting to this program.

The Library of Congress (LOC) is interested in funding projects to libraries, archives and museums to use LOC digital materials to create projects that center on the lives, experiences, and perspectives of Black, Indigenous, Hispanic or Latino, Asian American and Pacific Islander, and other communities of color in the United States.

LIMITED SUBMISSION: The Organization shall not submit more than one application under this announcement.

NEH: Archaeological and Ethnographic Field Research

The Archaeological and Ethnographic Field Research program makes awards to institutions and organizations conducting empirical field research to answer significant questions in the humanities. Archaeology and ethnography are important methodologies utilized by many disciplines across the humanities and social sciences that provide observational and experiential data on human history and culture.

Archaeological methods may include field survey and field-based remote sensing, documentation or visualization, and/or excavations in support of answering research questions in all aspects of the human past, including but not limited to ancient studies, anthropology, art history, classical studies, regional studies, epigraphy, and other related disciplines. Ethnographic methods may include participant observation, surveys and interviews, and documentation or recording in pursuit of research questions in anthropology, sociology, ethnolinguistics, oral history, ethnomusicology, performance
Projects may be led by individuals with institutional affiliation or by teams of collaborating scholars from the same or multiple eligible institutions. Awards provide up to three years of support for fieldwork and data processing. While the ultimate expectation of such awards is the dissemination of results through publications and other media, this program supports costs related to fieldwork such as travel, accommodation, and equipment as well as compensation for field staff and salary replacement for the project director and collaborating scholars. Applicants interested in publishing the results of field research are encouraged to apply to one of NEH’s individual fellowship programs or Collaborative Research.

Optional draft deadline: July 15, 2022
Application deadline: September 28, 2022

NEH: Dialogues on the Experience of War
The National Endowment for the Humanities (NEH) Division of Education Programs is accepting applications for the Dialogues on the Experience of War program, as part of its Standing Together: The Humanities and the Experience of War initiative. The purpose of the program is to support the study and discussion of important humanities sources about war and military service, in the belief that these sources can help U.S. military veterans and others think more deeply about the issues that they raise. Dialogues discussion groups may include exclusively veterans (including a subset of veterans such as students or residents of a group facility); civilians; military-affiliated persons; or any mix of these groups.

Optional draft deadline: July 21, 2022
Deadline: September 1, 2022

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.

**NEH Challenge Grants:** Notify RCA by 06/21/2022, 4pm, if you are interested in submitting to this program.

The purpose of the 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. The program supports two distinct types of projects, each with its own Notice of Funding Opportunity:

- **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.

- **Digital Infrastructure** supports the maintenance, modernization, and sustainability of existing digital scholarly projects and platforms.

Fundraising is a critical part of NEH Challenge grant awards: up to 10 percent of total funds (NEH federal matching funds plus certified gifts) may be used for fundraising costs during the period of performance.

**LIMITED SUBMISSION:** Applicants are limited to submitting a single application to the infrastructure and capacity building challenge grant program per calendar year.
NIH NOSI: Research on Pain, Pain Management, and Opioids in Aging

The purpose of this Notice of Special Interest (NOSI) [NOT-AG-22-004] is to highlight that the National Institute on Aging (NIA) is interested in receiving grant applications focused on pain, pain management, and opioids related to aging or older adults and within NIA’s mission areas. This NOSI invites research applications that focus on improving the understanding of mechanisms underlying pain experience with aging; enhancing assessment, prevention, and management strategies for pain in older adults; and improving health equity of aging populations suffering with pain. New applications, resubmissions, competing renewals, and competing revisions to existing awards are all encouraged through this NOSI.

This notice expires January 8, 2025

NIH: NIDA, NIMH, and NINDS Research Opportunities for New and "At-Risk" Investigators to Promote Workforce Diversity (R01 Clinical Trial Optional)

This Funding Opportunity Announcement (FOA) [PAR-22-181] solicits R01 grant applications that propose independent research projects that are within the scientific mission areas of the participating NIH Institutes or Centers:

- The National Institute on Drug Abuse (NIDA);
- The National Institute of Mental Health (NIMH); and
- The National Institute of Neurological Disorders and Stroke (NINDS).

This program is intended to support New Investigators and At-Risk Investigators from diverse backgrounds, including those from groups underrepresented in the health-related sciences. Investigators from diverse backgrounds, including those from underrepresented groups (e.g., see NOT-OD-20-031, Notice of NIH’s Interest in Diversity), are encouraged to work with their institutions to apply for support under this program.

Upcoming deadlines: September 8, 2022 and January 6, 2023.
NIH: Transformative Research on the Basic Mechanisms of Polysubstance use in Addiction (R01 - Clinical Trial Not Allowed)
This Funding Opportunity Announcement (FOA) [RFA-DA-23-015] will support projects proposing mechanistic studies that will transform our understanding of polysubstance use in addiction. These hypothesis-based, exploratory projects may investigate mechanisms of polysubstance use at the behavioral, cognitive, cellular, circuit, genetic, epigenetic, pharmacological and / or computational levels.

Deadline: November 14, 2022

NSF DCL: Advancing Educational Innovations and Broadening Participation in STEM with Blockchain Technology
This Dear Colleague Letter (DCL) [NSF 22-093] invites submission of proposals for projects that explore and research promising uses of blockchain technology in science, technology, engineering, and mathematics (STEM) education, broadening participation, and workforce development.

NSF DCL: Stimulating Integrative Research in Computational Cognition (CompCog)
This Dear Colleague Letter (DCL) [NSF 22-091] is intended to enhance the scientific and societal impact of the field by encouraging active dialogue across the cognitive and computational communities, facilitating bidirectional cross-fertilization of ideas and nurturing emerging areas of multidisciplinary research. The National Science Foundation (NSF) is interested in receiving proposals to existing programs (see list in DCL), that explore computational models of human cognition, perception, and communication and that integrate considerations and findings across disciplines. Proposals submitted to programs in the Directorate for Social, Behavioral and Economic Sciences (SBE) should include a rigorous computational context, and proposals submitted to programs in the Directorate for Computer and Information Science and Engineering (CISE) should include a rigorous cognitive context. For example, proposals that explore human cognition, perception, action, communication or learning should integrate and exploit what has been
learned in the fields of artificial intelligence, natural language processing, computational neuroscience, computer vision, robotics, machine learning, human-computer interaction, data analytics or other related areas. Similarly, proposals that explore artificial systems, co-robotics, affective computing, human-AI and human-automation interaction, extended reality, visualization and related topics should leverage and integrate understanding of human cognition, perception, action control, linguistics or developmental science.

**NSF: Research Experiences for Undergraduates**

The Research Experiences for Undergraduates (REU) program [NSF 22-601] supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research:

1. **REU Sites** are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome.

2. **REU Supplements** may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects.

Undergraduate student participants in either REU Sites or REU Supplements must be U.S. citizens, U.S. nationals, or permanent residents of the United States.

*Deadline: September 6, 2022*

**NSF: Smart and Connected Communities**

The goal of the NSF Smart and Connected Communities (S&CC) program solicitation [NSF 22-529] is to accelerate the creation of the scientific and engineering foundations that will enable smart and connected communities to bring about new levels of economic opportunity and growth, safety and security, health and wellness, accessibility and inclusivity, and overall quality of life.
For the purposes of this solicitation, communities are defined as having geographically-delineated boundaries—such as towns, cities, counties, neighborhoods, community districts, rural areas, and tribal regions—consisting of various populations, with the structure and ability to engage in meaningful ways with proposed research activities. A “smart and connected community” is, in turn, defined as a community that synergistically integrates intelligent technologies with the natural and built environments, including infrastructure, to improve the social, economic, and environmental well-being of those who live, work, learn, or travel in it.

The S&CC program encourages researchers to work with community stakeholders to identify and define challenges they are facing, enabling those challenges to motivate use-inspired research questions. The S&CC program supports integrative research that addresses fundamental technological and social science dimensions of smart and connected communities and pilots solutions together with communities.

This S&CC solicitation will support research projects in the following categories:

- **S&CC Integrative Research Grants (SCC-IRG) Tracks 1 and 2.** Awards in this category will support fundamental integrative research that addresses technological and social science dimensions of smart and connected communities and pilots solutions together with communities. Track 1 proposals may request budgets ranging between $1,500,001 and $2,500,000, with durations of up to four years. Track 2 proposals may request budgets up to $1,500,000, with durations of up to three years.

- **S&CC Planning Grants (SCC-PG).** Awards in this category are for capacity building to prepare project teams to propose future well-developed SCC-IRG proposals. Each of these awards will provide support for a period of one year and may be requested at a level not to exceed $150,000 for the total budget.

*Proposals accepted anytime, until April 1, 2024*

**NVIDIA: Grant Programs to Advance Research**

NVIDIA has several open opportunities for researchers and developers.

*The NVIDIA Applied Research Accelerator Program* promotes innovation by supporting
research with technical guidance, hardware, and funding for projects with the potential to make a real-world impact through deployment into GPU-accelerated applications. Applications are accepted year-round with four review cycles, ending March 31, June 30, September 30, and December 31.

The NVIDIA Academic Hardware Grant Program promotes advances in AI and data science by partnering with academic institutions around the world to enable researchers and educators with industry-leading hardware and software. This is a competitive program. Not all projects that meet the eligibility requirements will be awarded. Applications open June 20, 2022 and close July 1, 2022.

The NVIDIA Developer Program explores a hub of technical resources, including webinars, blogs, and the latest news for researchers, students, and educators. Access these tools and resources for free by registering for the NVIDIA Developer Program. Developers, sign up here >>

Simons Foundation: Targeted Grants in Mathematics and Physical Sciences

The Simons Foundation’s Mathematics and Physical Sciences (MPS) division invites applications for its Targeted Grants in MPS program. The program is intended to support high-risk theoretical mathematics, physics and computer science projects of exceptional promise and scientific importance on a case-by-case basis. The Targeted Grant in MPS program provides funding for up to five years. The funding level and duration is flexible and should be appropriate based on the type of support requested in the proposal. There is no recommended or assumed funding level for this program.

A letter of intent can be submitted at any time.

USDA: Urban, Indoor, and Emerging Agriculture

The Urban, Indoor, and Emerging Agriculture (UIE) program supports research, education, and extension work by awarding grants to solve key problems of local, regional, and national importance that facilitate development of urban, indoor, and emerging agricultural systems. The program includes food value chain stages: production,
harvesting, transportation, aggregation, packaging, distribution, and markets.

*Letter of Intent deadline: July 11, 2022; 4pm*  

**W.T. Grant Foundation: Institutional Challenge Grant**

The [Institutional Challenge Grant](#) encourages university-based research institutes, schools, and centers to build sustained research-practice partnerships with public agencies or nonprofit organizations in order to reduce inequality in youth outcomes.

To do so, research institutions will need to shift their policies and practices to value collaborative research. They will also need to build the capacity of researchers to produce relevant work and the capacity of agency and nonprofit partners to use research.

Applications are welcome from partnerships in youth-serving areas such as education, justice, child welfare, mental health, immigration, and workforce development. The Foundation especially encourages proposals from teams with African American, Latinx, Native American, and Asian American members in leadership roles. The partnership leadership team includes the principal investigator from the research institution and the lead from the public agency or nonprofit organization.

*Deadline: September 14, 2022; 2pm*  

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

[Contact Us](#)
The Office of Research and Creative Activity (RCA) sends weekly emails to NDSU faculty and staff to provide current information on various topics including funding opportunities, grant program changes, research resources, deadlines, notices, and training.
You are receiving this notification through the NDSU official employee listserv or sub-list. The official listserv refreshes after each pay period.

North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to: Equal Opportunity Specialist, Old Main 201, 701-231-7708 or Title IX/ADA Coordinator, Old Main 102, 701-231-6409.

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