

# RCA UPDATE

July 12, 2021

# **Funding Opportunity Edition**

# National Endowment for the Humanities (NEH) Funding Opportunities

NEH awards grants in the humanities for the purposes of strengthening teaching and learning, facilitating research and original scholarship, providing opportunities for lifelong learning, preserving and providing access to cultural and educational resources, and strengthening the institutional base of the humanities. Currently, NEH has a number of open funding opportunities, including:

- NEH: Infrastructure and Capacity Building Challenge Grants LIMITED
- NEH: Humanities Connections
- NEH: Archaeological and Ethnographic Field Research
- NEH: Dialogues on the Experience of War
- NEH: Collaborative Research
- NEH: Scholarly Editions and Scholarly Translations

To see a full list of NEH's funding opportunities, visit the NEH Grants page.

**Upcoming Limited Submission Program Deadlines** 

<u>Limited submission grant programs</u> 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 <a href="mailto:ndsu.researchdev@ndsu.edu">ndsu.researchdev@ndsu.edu</a>.

If you identify a limited submission opportunity that is not on the list below, please notify <a href="mailto:ndsu.researchdev@ndsu.edu">ndsu.researchdev@ndsu.edu</a>.

• NEH: Infrastructure and Capacity Building Challenge Grants
Notification Deadline: 07/14/2021

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 <u>Limited Submissions page</u>. 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 <u>ndsu.researchdev@ndsu.edu</u>.

• Breast Cancer Alliance: Young Investigator Grants

Deadline: 07/23/2021

NSF: ADVANCE

Letter of Intent deadline: 08/02/2021

NEA: Our Town

Deadline: 08/05/2021

• NEA: American Rescue Plan Grants to Organizations

Deadline: 08/12/2021

 NSF: Germination of Research Questions for Addressing Critical Societal Challenges

Letter of Intent deadline: 08/27/2021

• NIH: Director's Early Independence Awards

Deadline: 09/03/2021

NSF: Research Traineeship Program (NRT)

Deadline: 09/06/2021

NIH: Bridges to the Baccalaureate
 Notification Deadline: 09/27/2021

#### **FUNDING OPPORTUNITIES**

- AHRQ: Prevention of Healthcare-Associated Infections
- DEPSCoR: Research Collaboration
- DOI: Desalination and Water Purification Research Program
- Fulbright Scholar Program
- Jefferson Science Fellows
- NASA: Advanced Information Systems Technology
- ND EPSCoR Opportunities
- NDSU Foundation: Impact Fund
- NEH: Archaeological and Ethnographic Field Research
- NEH: Collaborative Research
- NEH: Dialogues on the Experience of War
- NEH: Humanities Connections
- NEH: Infrastructure and Capacity Building Challenge Grants LIMITED
- NEH: Scholarly Editions and Scholarly Translations
- NIH: HEAL Initiative Novel Targets for Opioid Use Disorders and Opioid Overdose
- NIH: Mechanisms of Alcohol Tolerance
- NIH: The Role of Work in Health Disparities
- NSF: Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems
- NSF: Secure and Trustworthy Cyberspace Frontiers
- <u>William T. Grant Foundation: Institutional Challenge Grant Reduce Inequality in</u> Youth Outcomes

# 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 <u>SPIN page</u> on the RCA website. If you have questions, please contact <u>ndsu.researchdev@ndsu.edu</u>.

# AHRQ: Large Research Projects for Prevention of Healthcare-Associated Infections (R01)

This Funding Opportunity Announcement (FOA) [PA-21-265] issued by the Agency for Healthcare Research and Quality (AHRQ) invites grant applications for funding to conduct Large Research Projects (R01) that propose to advance the base of knowledge for detection, prevention, and reduction of Healthcare-Associated Infections (HAIs). This FOA describes the broad areas of HAI research for which funds are available to support Large Research Projects.

Standard R01 deadlines apply; the first deadline for this program is October 5, 2021.

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### **DEPSCoR: Research Collaboration**

The objectives of the Defense Established Program to Stimulate Competitive Research (DEPSCOR) are to:

- 1. increase the number of university researchers in eligible States / Territories capable of performing science and engineering (S&E) research responsive to the needs of the Department of Defense (DoD);
- 2. enhance the capabilities of institutions of higher education (IHEs) in eligible States / Territories to develop, plan, and execute S&E research that is relevant to the mission of the DoD and competitive for Federal funding; and
- 3. increase the probability of long-term growth in the competitively awarded Federal funding.

The Research Collaboration funding opportunity [FOA-AFRL-AFOSR-2021-0007] 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 October 1, 2014, and September 30, 2021.

This structure is aimed at introducing potential applicants to the DoD's unique research challenges and its supportive research ecosystem. Topic areas of interest include:

- Physics of Sensing;
- Complex Networks;
- Modeling of Complex Systems;
- Biomathematics;
- Solid Mechanics;
- Environmental Chemistry;
- Electronic Sensing;
- Nanoscale Computing Devices and Systems;
- Additive Manufacturing; and
- Social Networks and Computational Social Science.

See the full list in the FOA.

Deadline: September 20, 2021

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### **DOI: Desalination and Water Purification Research Program**

The objective of this Notice of Funding Opportunity (NOFO) [R22AS00010] is to invite private industry, universities, water utilities, and other research sponsors to submit applications that address the U.S. Department of the Interior (DOI) Bureau of Reclamation's Desalination and Water Purification Research Program (DWPR) goals and objectives through laboratory or pilot scale studies.

DWPR's goal is to increase water supplies by reducing the cost, energy consumption, and environmental impacts of treating impaired and otherwise unusable waters. This DWPR funding opportunity invites applications addressing a number of objectives, including:

- Reduce the environmental impacts of seawater desalination and develop technology and strategies to minimize those impacts.
- Improve existing membrane technologies, including reverse osmosis.
- Develop and promote innovative desalination technologies, including concentrate management and chloride control.

- Study methods for the recovery of byproducts resulting from desalination to offset the costs of treatment and to reduce environmental impacts from those byproducts.
- Develop metrics to analyze the costs and benefits of desalination relative to other sources of water (including costs and benefits related to associated infrastructure, energy use, environmental impacts, and diversification of water supplies).
- Improve membrane system performance.

See the solicitation for a full list of objectives.

Deadline: 09/09/2021

### **Fulbright Scholar Program**

The <u>Fulbright U.S. Scholar Program</u> 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

# **Jefferson Science Fellows Program**

The National Academies of Sciences, Engineering, and Medicine (NASEM) announced a call for applications for the 2022 <u>Jefferson Science Fellows (JSF) program</u>. Established by the Secretary of State in 2003, this fellowship program serves as an innovative model for engaging the American academic science, technology, engineering, and medical communities in U.S. foreign policy and international development through on-site work at the U.S. Department of State and the U.S. Agency for International Development (USAID).

The JSF program is open to tenured, or similarly ranked, faculty from U.S. institutions of higher learning who are U.S. citizens.

The JSF program is a means for providing the U.S. Department of State access to additional high-level science and technology expertise. This resource can be especially

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helpful at a time when the Department has given a high priority to science, technology, and engineering in meeting our global diplomacy and development challenges. The Fellows bring a broad range of scientific and technical expertise in areas such as physics, chemistry, information technology, life sciences, engineering, environment, agriculture, health, and social sciences.

To learn more about the JSF program and to apply, visit www.nas.edu / jsf.

Online applications will be accepted from August 2, 2021 through October 15, 2021 at 4 PM.

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# NASA: Research Opportunities in Space and Earth Sciences (ROSES) 2021 – Advanced Information Systems Technology

NASA's <u>Advanced Information Systems Technology (AIST) Program</u> identifies, develops, and supports adoption of software and information systems, as well as novel computer science technologies expected to be needed by the Earth Science Division in the 5-10-year timeframe, as described in ROSES-21 A.1, Earth Science Research Overview.

AIST has been organized around two primary thrusts: New Observing Strategies (NOS) and Analytic Collaborative Frameworks (ACF). The current vision is to connect these two existing thrusts and integrate them into the larger concept of Earth System Digital Twins (ESDT).

To implement this new vision, the AIST Program is focusing on technologies and innovative concepts with three main objectives:

- O1: Enable new observation measurements and new observing systems design and operations through intelligent, timely, dynamic, and coordinated distributed sensing;
- O2: Enable agile science investigations that fully utilize the large amount of diverse observations using advanced analytic tools, visualizations, and computing environments, and that interact seamlessly with relevant observing systems;
- O3: Enable the development of integrated Earth Science frameworks that mirror the Earth with state-of-the-art models (Earth system models and others), timely and relevant observations, and analytic tools. This thrust will provide technology for enabling near- and long-term science and policy decisions ("science decisions"

including planning for the acquisition of new measurements; the development of new models or science analysis; the integration of Earth observations in novel ways; applications to inform choices, support decisions, and guide actions for societal benefit; etc.).

Step-1 Proposal Deadline: August 25, 2021

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# **ND EPSCoR Opportunities**

The North Dakota Established Program to Stimulate Competitive Research (ND EPSCoR) has two open requests for proposals:

Emerging Areas Seed Awards: ND EPSCoR seeks to provide emerging areas seed awards of up to \$25,000 to researchers from the NSF EPSCoR RII Track-1 New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES) participating institutions in areas of emerging high impact and transformative research related to the Center for Cellular Biointerfaces in Science and Engineering (CCBSE). Eligible applicants are not currently associated with the 2020-2025 ND-ACES cooperative agreement and did not receive a 2021 ND-ACES emerging seed award. Please see the Request For Applications for details.

Application Deadline: Noon, September 1, 2021

ND NASA EPSCoR Supplemental Project Funding (NDSU Only): the goal of NASA EPSCoR, an EPSCoR-like program, is to provide seed funding that will enable jurisdictions / states to develop an academic research enterprise directed toward long-term, self-sustaining, nationally competitive capabilities in aerospace and aerospace-related research. NASA EPSCoR has the following objectives:

- Contribute to and promote the development of research infrastructure in EPSCoR jurisdictions in areas of strategic importance to the NASA mission.
- Improve the capabilities of the jurisdictions to gain support from sources outside the NASA EPSCoR program.
- Develop partnerships between NASA research assets, industry, and EPSCoR jurisdictions' academic institutions.
- Contribute to the overall research infrastructure, science and technology capabilities, higher education, and / or economic development of the jurisdiction.

Please see the Request for Proposals for details.

Deadline: Noon on July 29, 2021

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### **NDSU Foundation: Impact Fund**

The NDSU Foundation Grants Committee is accepting applications for the 2021 Impact Fund Grant Program, which provides funding for projects that make a significant impact on excellence and the educational experience for students at North Dakota State University. The Impact Fund Grant Program offers grants of \$20,000 to \$75,000 and is supported by annual contributions from alumni and friends of the University.

Applications are accepted from faculty, staff, and recognized student groups.

For additional information and to apply, go to: <a href="https://www.ndsufoundation.com/impact-fund">https://www.ndsufoundation.com/impact-fund</a>.

Email Janna Swanson, NDSU Foundation Grants Committee liaison, at janna.swanson@ndsufoundation.com, with further questions.

Deadline: August 2, 2021

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# **NEH: Archaeological and Ethnographic Field Research**

The <u>Archaeological and Ethnographic Field Research program</u> 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, ethnolinguistics, oral history, ethnomusicology, performance studies, folklore studies, and related disciplines.

Optional draft deadline: August 12, 2021 Application deadline: September 29, 2021

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### **NEH: Collaborative Research**

The <u>Collaborative Research program</u> aims to advance humanistic knowledge through sustained collaboration between two or more scholars. Collaborators may be drawn from a single institution or several institutions across the United States; up to half of the collaborators may be based outside of the U.S. The program encourages projects that propose diverse approaches to topics, incorporate multiple points of view, and explore new avenues of inquiry in the humanities.

The program allows projects that propose research in a single field of study, as well as interdisciplinary work. Projects that include partnerships with researchers from the natural and social sciences are encouraged but must employ a humanistic research agenda. Partnerships among different types of institutions are welcome as well as new collaborations with international partners.

Proposed projects must aim to result in tangible and sustainable outcomes, for example, co-authored or multi-authored books; born-digital publications; themed issues of peer-reviewed journals; a series of peer-reviewed articles; and open-access scholarly digital resources. All project outcomes must incorporate interpretive work and collaboration to address significant humanities research questions.

The 2021 application guidelines will be available October 1, 2021. The 2020 application guidelines are currently available for planning purposes.

# **NEH: Dialogues on the Experience of War**

The <u>Dialogues on the Experience of War</u> program supports the study and discussion of important humanities sources about war, in the belief that these sources can help U.S. military veterans and others think more deeply about the issues raised by war and military service. *Dialogues* is designed to reach military veterans; however, projects involving discussion groups that integrate veterans with civilians, men and women in active service, and military families are welcome. Project teams should include humanities scholars, military veterans, and individuals with relevant experience.

The 2021 application will be available August 14, 2021. For now, the 2020 application guidelines are available for planning purposes.

Deadline: October 14, 2021

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#### **NEH: Humanities Connections**

The <u>Humanities Connections</u> program seeks to expand the role of the humanities in undergraduate education at two- and four-year institutions. Awards support innovative curricular approaches that foster productive partnerships among humanities faculty and their counterparts in the social and natural sciences and in pre-service or professional programs (such as business, engineering, health sciences, law, computer science, and other technology-driven fields) in order to encourage and develop new integrative learning opportunities for students.

Humanities Connections projects have four core features:

- 1. substantive and purposeful integration of the subject matter, perspectives, and pedagogical approaches of two or more disciplines (with a minimum of one in and one outside of the humanities);
- 2. collaboration between faculty from two or more separate departments or schools at one or more institutions;
- 3. experiential learning as an intrinsic part of the curricular plan; and
- 4. long-term institutional support for the proposed curriculum innovation(s).

The Humanities Connections program includes two categories: **Planning** and **Implementation**.

Deadline: September 14, 2021

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# NEH: Infrastructure and Capacity Building Challenge Grants - Limited Submission Program

<u>Limited submission grant programs</u> 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:  $\underline{\text{Notify RCA}}$  by 07/14/2021, 4:00 p.m. if you are interested in submitting to this program.

The purpose of the <u>Challenge Grants program</u> is to strengthen the institutional base of the humanities by enabling infrastructure development and capacity building. Awards 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 funds two distinct types of projects, each with its own notice of funding opportunity:

• **Capital Projects** supports the design, purchase, construction, restoration, or renovation of facilities for humanities activities. This includes 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.

This program requires matching funds.

**LIMITED SUBMISSION:** NDSU may submit one proposal to this program per calendar year.

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### **NEH: Scholarly Editions and Scholarly Translations**

The <u>Scholarly Editions and Scholarly Translations program</u> provides grants to organizations to support collaborative teams who are editing, annotating, and translating foundational humanities texts that are vital to learning and research but are currently inaccessible or are available only in inadequate editions or translations. Typically, the texts are significant literary, philosophical, and historical materials, but other types of work, such as musical notation, may also be the subject of an edition.

The program supports continuous full-time or part-time activities during the periods of performance of one to three years. Projects must be undertaken by at least two scholars working collaboratively. While international collaboration is permitted, projects must maintain an equitable balance between scholars at U.S. institutions and scholars at non-U.S. institutions. In addition to supporting long-term editorial projects, the program also encourages applications for short-term projects and for projects that are at a planning stage.

Optional draft deadline: September 30, 2021

Deadline: December 1, 2021

# NIH: HEAL Initiative - Novel Targets for Opioid Use Disorders and Opioid Overdose

The purpose of these Funding Opportunity Announcements (FOAs) is to support research projects focusing on the identification of druggable new targets and discovery of optimizable probes for development of safe and efficacious medications to prevent and treat opioid use disorders (OUDs), opioid overdose, and opioid-polysubstance use comorbidities. These FOAs are part of the NIH Helping to End Addictions Long-term (HEAL) initiative to accelerate the development of novel medications to treat all aspects of the opioid addiction cycle, including progression to chronic use, withdrawal symptoms, craving, relapse, and overdose.

• RFA-DA-22-031: R01 Clinical Trial Not Allowed

RFA-DA-22-032: R21 Clinical Trial Not Allowed

Deadline: October 19, 2021

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# NIH: Mechanisms of Alcohol Tolerance (R21/R33 Clinical Trial Optional)

This funding opportunity announcement (FOA) [PAR-21-250] focuses on sensitivity and tolerance mechanisms underlying the development of alcohol use disorder. The intent of this FOA is to:

- 1. develop hypotheses about cellular, molecular or network mechanisms that regulate sensitivity and tolerance to alcohol, and
- 2. develop quantitative models to predict the development of tolerance and the progression to alcohol use disorder.

These objectives will be accomplished with a Phased Innovation (R21/R33) mechanism, clinical trial optional, in which secondary data analysis or pilot studies can occur during the R21 phase, and research testing the hypotheses can be expanded in the R33 phase. The transition to the R33 phase will be determined by National Institute on Alcohol Abuse and Alcoholism (NIAAA) program staff after evaluation of the achievement of specific milestones set for the R21 phase.

Deadline: 10/16/2021

# NIH: The Role of Work in Health Disparities in the U.S. (R01 Clinical Trials Optional)

The purpose of this Funding Opportunity Announcement [PAR-21-275] is to support innovative population-based research that can contribute to identifying and characterizing pathways and mechanisms through which work or occupation influences health outcomes and health status among populations with health and / or health care disparities, and how work functions as a social determinant of health.

Standard R01 deadlines apply; the first deadline for this program is October 5, 2021.

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# NSF: Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems (ECO-CBET)

The Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems (ECO-CBET) solicitation [NSF 21-596] will support fundamental research activities that confront vexing environmental engineering and sustainability problems by developing foundational knowledge underlying processes and mechanisms such that the design of innovative new materials, processes, and systems is possible. Projects should be compelling and reflect sustained, coordinated efforts from highly interdisciplinary research teams. A key objective of the solicitation is to encourage dialogue and tightly integrated collaborations wherein members of the chemical process systems, transport phenomena, and bioengineering research communities engage with environmental engineering and sustainability experts to spark innovation and arrive at unanticipated solutions. Furthermore, training the future workforce to successfully engage in discipline-transcending research will support continued innovation toward surmounting the complex environmental and sustainability challenges facing our global community.

Process science and engineering, in the context of this solicitation, is broadly defined to include all programmatic interests of the National Science Foundation (NSF) Directorate for Engineering's (ENG) Division of Chemical, Bioengineering, Environmental, and

Transport Systems (CBET). These interests are outlined in the "core" program descriptions included in the solicitation. Teams should be constructed such that expertise is both complementary and distinct, drawing inspiration from the CBET-supported research communities. Creative collaborations between the CBET research communities that do not typically intersect are highly encouraged. At least three named investigators must be identified, each of whom must possess a unique perspective or skillset that motivates the proposed approach(es). In addition to the three required investigators representing distinct CBET-supported research communities, teams may also wish to include investigators with expertise in manufacturing, other sciences, including social, behavioral, and economic sciences, or otherwise to extend the impact of the work.

Pre-proposal deadline: October 1, 2021

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### **NSF: Secure and Trustworthy Cyberspace Frontiers**

The Secure and Trustworthy Cyberspace (SaTC) program welcomes proposals that address cybersecurity and privacy, and draw on expertise in one or more of these areas: computing, communication and information sciences; engineering; economics; education; mathematics; statistics; and social and behavioral sciences. Proposals that advance the field of cybersecurity and privacy within a single discipline or interdisciplinary efforts that span multiple disciplines are both encouraged.

Through this solicitation [NSF 21-597] NSF specifically seeks ambitious and potentially transformative **center-scale projects** in the area of cybersecurity and privacy that

- 1. catalyze far-reaching research explorations motivated by deep scientific questions or hard problems and/or by compelling applications and novel technologies that promise significant scientific and/or societal benefits, and
- 2. stimulate significant research and education outcomes that, through effective knowledge transfer mechanisms, promise scientific, economic and/or other societal benefits.

The SaTC Frontiers program will support proposals from \$5,000,000 to \$10,000,000 in total budget, with durations of up to five years.

LOI deadline: 09/07/2021

# William T. Grant Foundation: Institutional Challenge Grant – Reduce Inequality in Youth Outcomes

The <u>Institutional Challenge Grant</u> 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. Research institutions will need to address four important goals:

- 1. Build a sustained institutional partnership with a public agency or nonprofit organization.
- 2. Pursue a joint research agenda to reduce inequality in youth outcomes.
- 3. Create institutional change to value research-practice partnerships within research institutions.
- 4. Develop the capacity of both partners to collaborate on producing and using research evidence.

Deadline: 09/14/2021; 2pm

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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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