

RCA UPDATE

July 11, 2022

Funding Opportunity Edition

Lab / Research Space Tours

Sharing what you're doing in your research space is a good first step in initiating collaborations outside of your home unit. You are invited to host a lab tour for your NDSU colleagues and Vice President Fitzgerald. Complete this [short questionnaire](#) to begin the process.

Upcoming Events

- **DEPSCoR Day at University of South Dakota****
July 19, 2022 / [Learn more >>](#)
***If you are planning to attend this event, travel support may be available from the RCA Office. Please contact ndsu.researchdev@ndsu.edu.*
- **REGISTRATION OPEN: AICoRN Summit & DaCCoTA Symposium**
August 4-5, 2022 / [Learn more >>](#)
- **SAVE THE DATE: Summer Undergraduate Research Programs Poster Session**
August 5, 2022; 10am-12pm / A.Glenn Hill Center

- **Webinar: Understanding the New NIH Data Management and Sharing Policy**
August 11, 2022; 12:30-2:30pm / [Learn more >>](#)
- **REGISTRATION OPEN: DARPA Forward Regional Events on National Security Innovation**
August-December, 2022 / [Learn more >>](#)
- **Webinar: Diving Deeper into the New NIH Data Management and Sharing Policy**
September 22, 2022; 12:30-2:30pm / [Learn more >>](#)

FUNDING OPPORTUNITIES

- [Cisco Research](#)
- [DARPA: Biological Technologies](#)
- [DOE: Decarbonization of Industry](#)
- [EPA: Disinfectants, Disinfection By-Products, and Opportunistic Pathogens in Drinking Water Systems](#)
- [National Center for Education Research](#)
- [NDSU Foundation: Impact Grants](#)
- [NIH: Cancer Research Education Grants Program](#)
- [NIH: Complex Integrated Multi-Component Projects in Aging Research](#)
- [NIH: Collaborative Program for Multidisciplinary Teams – LIMITED](#)
- [NIH: Impact of the Microbiome-Gut-Brain Axis on Alzheimer’s Disease](#)
- [NIH: Understudied Proteins Associated with Rare Diseases](#)
- [NSF: Condensed Matter and Materials Theory](#)
- [NSF: DMR – Topical Materials Research Programs](#)
- [NSF: Louis Stokes Alliances for Minority Participation – LIMITED](#)
- [NSF: Paleo Perspectives on Climate](#)
- [NSF: Scholarships in STEM Program – LIMITED](#)
- [USDA-NIFA: Bioproduct Pilot Program](#)

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.

- [NEH: Summer Stipends](#)
Internal Pre-proposal Deadline: 07/15/2022; 4pm
- [NSF: Louis Stokes Alliances for Minority Participation - STEM Pathways Implementation-Only](#)
Notification Deadline: 07/20/2022
- [DOE: Clean Energy Manufacturing Innovation Institute for Industrial Decarbonization through Electrification of Process Heating](#)
First to Notify; DOE Concept Papers Due 08/09/2022; 4pm
- [NIH: Collaborative Program Grant for Multidisciplinary Teams](#)
Notification Deadline: 09/15/2022
- [NSF: Scholarships in STEM \(S-STEM\) Program](#)
Notification Deadline: 09/15/2022

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.

- [Breast Cancer Alliance: Young Investigator Grants](#)
Deadline: 07/22/2022
- [Mathers Foundation: Basic Research in Life Sciences](#)
Letter of Intent Deadline: 07/31/2022
- [Macy Faculty Scholars Program: Medical and Nursing Education](#)
Deadline: 08/01/2022; 2:00pm

- [NSF: Resilient & Intelligent NextG Systems](#)
Deadline: 08/01/2022
- [DOE EnergyShed](#)
Deadline: 08/01/2022
- [LOC: Community Collections](#)
Deadline: 08/01/2022
- [DOE: RENEW - Basic Energy Sciences](#)
Deadline: 08/02/2022
- [NEA: Our Town](#)
Deadline: 08/04/2022
- [DOE: RENEW - High Energy Physics](#)
Deadline: 08/15/2022
- [Templeton Foundation: Spiritual Yearning Research Initiative](#)
Letter of Inquiry Deadline: 08/19/2022
- [NIH: Director's Early Independence Award](#)
Deadline: 09/02/2022
- [HRSA: Strengthen Evidence for Maternal and Child Health Programs](#)
Notification Deadline: 09/08/2022
- [NIH: Bridges to the Baccalaureate](#)
Deadline: 09/26/2022
- [NIH: Bridges to the Doctorate](#)
Deadline: 09/27/2022
- [NEH: Infrastructure and Capacity Building Challenge Grants](#)
Deadline: 09/27/2022
- [LOC: Connecting Communities Digital Initiative](#)
Deadline: 09/30/2022

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.

Cisco Research

Cisco Research engages with academia to share knowledge and experience from the ground and collaborates with research labs across many domains to pave the way for future innovations. Current Requests for Proposals include:

- De-Centralized Computing, Blockchain, Cyptocurrency / Virtual Currency;
- Sustainability;
- Augmented and Virtual Reality;
- Natural Language Processing; and
- Cybersecurity in Emerging Tech Areas.

[See the full list of opportunities >>](#)

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DARPA: Biological Technologies

This announcement [[HR001122S0034](#)] seeks revolutionary research ideas for topics not being addressed by ongoing Biological Technologies Office (BTO) programs or other published solicitations.

This announcement will remain open through April 20, 2023.

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DOE: Decarbonization of Industry

The Department of Energy (DOE) announced its intent to issue a funding opportunity announcement (FOA) that will support DOE's efforts to decarbonize the American industrial sector and move the U.S. toward net-zero carbon emissions.

The "Industrial Efficiency and Decarbonization FOA" is expected to include the following

topics, applying the four industrial decarbonization pathways to energy-intensive American industries where decarbonization technologies could have the greatest impact:

- **Decarbonizing Chemicals:** This topic will focus on unit operations, including advanced separations and advanced reactors, and alternative production and process heating technologies to reduce carbon impacts from the production of high-volume chemicals.
- **Decarbonizing Iron and Steel:** This topic will focus on advancements that enable decarbonization in ore-based or scrap-based iron and steelmaking operations, and that convert other existing iron and steelmaking ancillary and thermal processes to use clean fuels or electricity.
- **Decarbonizing Food and Beverage Products:** This topic will focus on innovative technologies that decarbonize process heating operations within the food and beverage sector.
- **Decarbonizing Cement and Concrete:** This topic will focus on next generation cement formulations and process routes, utilization of low carbon fuels, and carbon capture technologies.
- **Decarbonizing Paper and Forest Products:** This topic will focus on novel paper and wood drying technologies, and innovative pulping and paper forming technologies.
- **Cross-sector Decarbonization Technologies:** This topic will focus on innovations in low temperature waste heat to power, thermal energy storage, and industrial heat pump technologies.

DOE's Advanced Manufacturing Office plans to issue the FOA via [EERE Exchange](#) in August 2022. EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 24-36 months.

For more information about this NOI, visit the [Advanced Manufacturing Office website](#).

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EPA: National Priorities: Research on Disinfectants, Disinfection By- Products (DBPs), and Opportunistic Pathogens in Drinking Water Distribution Systems

Ensuring clean and safe drinking water is important for protecting human health and the environment. Opportunistic pathogen and disinfection by-product (DBP) contaminants in

drinking water distribution systems remains a water quality issue that is prevalent across the Nation. More information is needed on the occurrence of DBPs and opportunistic pathogens, along with identifying environmental conditions and niches favorable to colonization, microbial growth, and propagation in drinking water distribution systems. This research will help inform water infrastructure management and risk-mitigation practices to ensure safe drinking water. This National Priorities Request for Applications (RFA) [[EPA-G2022-ORD-H1](#)] will solicit innovative research to address knowledge gaps on the occurrence of pathogens and DBPs in drinking water distribution systems across the United States.

Cost sharing is required for this program.

Deadline: August 31, 2022

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National Center for Education Research

The National Center for Education Research and the National Center for Special Education Research released funding announcements for fiscal year 2023 grant competitions.

Special Education Research Grants

[Special Education Research Grants](#) (84.324A): This program seeks to expand the knowledge base and understanding of learners with or at risk for disabilities from infancy through postsecondary education. Grants support the development and validation of measurement tools, exploratory research, the development and pilot testing of new interventions, and initial efficacy studies to evaluate interventions. This research program will cover a wide range of substantive topic areas.

Using Data for Policymaking

[Using Longitudinal Data to Support State Education Policymaking](#) (84.305S): This program seeks to support state agencies' use of their state's education longitudinal data systems to provide evidence for their own program and policy decisions, and those of their local education agencies.

Research Training Programs

[Research Training Programs in the Education Sciences](#) (84.305B): These training programs seek to fund new approaches to train and mentor students and researchers from diverse

backgrounds to encourage their entry into and success in education research careers. These efforts are intended to improve the quality of education research and to encourage new ideas, approaches, and perspectives. For FY 2023, there are two training programs in education—early career mentoring at MSIs and methods training in data science.

[Research Training Programs in Special Education](#) (84.324B): These training programs seek to prepare individuals to conduct rigorous and relevant special education and early intervention research that advances knowledge within the field and addresses issues important to education policymakers and practitioners. For FY 2023, there is one training program in special education—early career development and mentoring.

More information about the IES research programs, application process, and deadlines are available on the [IES Funding Opportunities web page](#). IES may announce additional competitions later in 2022.

Letters of intent (optional but encouraged) are due July 21, 2022.

Applications are due September 8, 2022.

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NDSU Foundation: Impact Grants

The NDSU Foundation Grants Committee is accepting applications for the 2022 Impact Fund Grant Program, which provides funding for projects that make a significant impact on excellence and the educational experience for students at NDSU. This program is supported by annual contributions from alumni and friends of the University.

Applications are accepted from faculty, staff, and recognized student groups. The Impact Fund Grant Program offers grants of \$20,000 to \$75,000.

The application form, and additional information about the NDSU Impact Fund Grant Program, can be found at the NDSU Foundation website:

<https://www.ndsufoundation.com/impact-fund>.

For any further questions, please email Janna Swanson, Grants Committee Liaison, at janna.swanson@ndsufoundation.com.

Deadline: August 2, 2022; 4:30pm

NIH: Cancer Research Education Grants Program (R25 Clinical Trials Not Allowed)

The National Institutes of Health (NIH) National Cancer Institute (NCI) encourages applications that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, or treatment of cancer, rehabilitation from cancer, or the continuing care of cancer patients and the families of cancer patients, in order to advance the [NCI mission](#). To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on:

- **Courses for Skills Development** [[PAR-21-278](#)]: The proposed course for skills development should provide innovative, state-of-the-art, evidence-based cancer research education that is derived from biomedical, behavioral and clinical cancer research findings. All instructional activities must be completed within a 12-month period. Activities to evaluate the professional impact of the course on the participants may continue indefinitely, as feasible. The format of the course may involve a traditional in-person approach, online activities, or a hybrid of both approaches.
- **Research Experiences** [[PAR-21-279](#)]: Proposed research experiences should involve an innovative approach to provide hands-on exposure to cancer research for a full-time (40 hours per week) period of 8 to 15 weeks in order to stimulate the interest and advance the knowledge base of participants to consider further education and training for future careers as cancer researchers. Ideally, the research experiences should provide opportunities for the participants to present their work at professional venues and / or earn co-authorship on peer-reviewed publications.

Standard deadlines apply. Upcoming deadlines are September 25, 2022 and January 25, 2023

NIH: Complex Integrated Multi-Component Projects in Aging Research (U19 Clinical Trial Optional)

This Funding Opportunity Announcement (FOA) [[PAR-22-213](#)] allows for applications that propose large-scale, complex research projects with multiple highly integrated components focused on a common research question relevant to aging. Such projects will likely involve an integrated multidisciplinary team of investigators within a single institution or a consortium of institutions.

Standard deadlines apply. Upcoming deadlines are January 25 and May 25, 2023.



NIH: Collaborative Program Grant for Multidisciplinary Teams (RM1 - Clinical Trial Optional) – 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.

NIH RM1 : [Notify RCA](#) by 09/15/2022, 5pm, if you are interested in submitting to this program.

This funding opportunity announcement (FOA) [[PAR-20-103](#)] is designed to support highly integrated research teams of three to six PDs/PIs to address ambitious and challenging research questions that are important for the mission of NIGMS and are beyond the scope of one or two investigators. Collaborative program teams are expected to accomplish goals that require considerable synergy and managed team interactions. Project goals should not be achievable with a collection of individual efforts or projects. Teams are encouraged to consider far-reaching objectives that will produce major advances in their fields.

Applications that are mainly focused on the creation, expansion, and/or maintenance of community resources, creation of new technologies, or infrastructure development are not appropriate for this FOA.

LIMITED SUBMISSION:

Only one application per institution is allowed per review round.

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NIH: Impact of the Microbiome-Gut-Brain Axis on Alzheimer's Disease and Alzheimer's Disease-Related Dementias (R01 Clinical Trial Not Allowed)

This Funding Opportunity Announcement (FOA) [[PAR-22-211](#)] invites applications for basic and translational research on the impact of the microbiome on Alzheimer's Disease and Alzheimer's Disease-Related Dementias (AD/ADRD). While there is growing evidence that the microbiome is an important factor that contributes to overall health and a variety of diseases and disorders, the role of the alimentary canal and other sources of endogenous microbiota in specific AD/ADRDs has not been adequately addressed. This FOA will support mechanistic research focused on a more rigorous in-depth examination of the potential interactions between the microbiome and genetic and non-genetic molecular targets that influence AD/ADRD. It is expected that these studies will address the clinical relevance of the microbiome on disease initiation, progression, or modification, and will lead ultimately to better therapeutic interventions.

Deadline: October 5, 2022

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NIH: Pilot Projects Investigating Understudied Proteins Associated with Rare Diseases (R03 Clinical Trial Not Allowed)

The purpose of this funding opportunity announcement (FOA) [[RFA-TR-22-030](#)] is to solicit applications for pilot projects to elucidate a role for understudied proteins associated with rare diseases. Awards will support generation of preliminary data and / or tools around eligible understudied protein(s). A list of eligible proteins is provided and are members of druggable protein families that have a known association with a rare disease. This FOA is intended to jumpstart research on understudied proteins that are associated with rare diseases and provide applicants with sufficient funding to perform basic biochemical and / or biological work to further the characterization of understudied proteins associated with

rare disease.

Upcoming deadlines: October 17, 2022; March 15, 2023

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NSF: Condensed Matter and Materials Theory (CMMT)

CMMT supports theoretical and computational materials research in the topical areas represented in DMR's other Topical Materials Research Programs: Condensed Matter Physics (CMP), Biomaterials (BMAT), Ceramics (CER), Electronic and Photonic Materials (EPM), Metals and Metallic Nanostructures (MMN), Polymers (POL), and Solid State and Materials Chemistry (SSMC). The CMMT program [[NSF 22-610](#)] supports fundamental research that advances conceptual understanding of hard and soft materials, and materials-related phenomena; the development of associated analytical, computational, and data-centric techniques; and predictive materials-specific theory, simulation, and modeling for materials research. First-principles electronic structure, quantum many-body and field theories, statistical mechanics, classical and quantum Monte Carlo, and molecular dynamics, are among the methods used in the broad spectrum of research supported in CMMT. Research may encompass the advance of new paradigms in materials research, including emerging data-centric approaches utilizing data-analytics or machine learning. Computational efforts span from the level of workstations to advanced and high-performance scientific computing. Emphasis is on approaches that begin at the smallest appropriate length scale, such as electronic, atomic, molecular, nano-, micro-, and mesoscale, required to yield fundamental insight into material properties, processes, and behavior, to predict new materials and states of matter, and to reveal new materials phenomena. Approaches that span multiple scales of length and time may be required to advance fundamental understanding of materials properties and phenomena, particularly for polymeric materials and soft matter. Areas of recent interest include, but are not limited to: strongly correlated electron systems; topological phases; low-dimensional materials and systems; quantum and classical nonequilibrium phenomena, the latter including pattern formation, materials growth, microstructure evolution, fracture, and the jamming transition; gels; glasses; disordered materials, hard and soft; defects; high-temperature superconductivity; creation and manipulation of coherent quantum states; nanostructured materials and mesoscale phenomena; sustainable materials; polymeric materials and soft condensed matter; active matter and related collective behavior; biologically inspired materials, and research at the interfaces of materials with biological systems.

Proposals accepted anytime.

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NSF: DMR – Topical Materials Research Programs

Research supported by the Division of Materials Research (DMR) [[NSF 22-609](#)] focuses on advancing the fundamental understanding of materials, materials discovery, design, synthesis, characterization, properties, and materials-related phenomena. DMR awards enable understanding of the electronic, atomic, and molecular structures, mechanisms, and processes that govern nanoscale to macroscale morphology and properties; manipulation and control of these properties; discovery of emerging phenomena of matter and materials; and creation of novel design, synthesis, and processing strategies that lead to new materials with unique characteristics. These discoveries and advancements transcend traditional scientific and engineering disciplines. DMR supports research and education activities in the United States through funding of individual investigators, teams, centers, facilities, and instrumentation. Projects supported by DMR are not only essential for the development of future technologies and industries that address societal needs, but also for the preparation of the next generation of materials researchers.

Proposals accepted anytime.

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NSF: Louis Stokes Alliances for Minority Participation (LSAMP) STEM Pathways Implementation-Only – 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.

LSAMP SPIO : [Notify RCA](#) by 07/20/2022, 4pm, if you are interested in submitting

to this program.

The overall goal of the program [[NSF 20-590](#)] is to assist universities and colleges in diversifying the nation's science, technology, engineering and mathematics (STEM) workforce by increasing the number of STEM baccalaureate and graduate degrees awarded to populations historically underrepresented in these disciplines.

STEM Pathways Implementation-Only Alliance projects are mainly focused on a particular STEM pathway or transition, e.g., entry into college, first two years, or preparation for entry into graduate studies. Additionally, the project may focus on activities dedicated to diversifying a particular STEM discipline. These projects are targeted to newly-created alliances, reconstituted alliances or alliances that have received support by the program for 10 years or less. Initial institutionalization and sustainability planning for the alliance should be addressed in the project description. Projects are five years in duration.

The other programs covered by this solicitation include:

- Bridge to the Baccalaureate: **NDSU cannot be the lead institution.**
- STEM Pathways and Research Alliance: **NDSU is ineligible.**
- Bridge to the Doctorate: **NDSU is ineligible.**

LIMITED SUBMISSION:

One submission per lead institution.

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NSF: Paleo Perspectives on Present and Projected Climate (P4CLIMATE)

The P4CLIMATE competition [[NSF 22-612](#)] is a coordinated paleoclimate science initiative that is funded by the National Science Foundation (NSF) Divisions of Atmospheric and GeoSpace Sciences (AGS), Earth Sciences (EAR), Ocean Sciences (OCE), and Office of Polar Programs (OPP) in the Geosciences (GEO) Directorate. The annual P4CLIMATE competition supports the scientific objectives of the NSF by fostering interdisciplinary research and synthesis of climate data.

The goal of the interdisciplinary P4CLIMATE solicitation is to utilize observational and modeling studies to provide paleo perspectives addressing the two research themes:

1. Past Regional and Seasonal Climate; and
2. Past Climate Forcing, Sensitivity, and Feedbacks.

Deadline: October 20, 2022

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NSF: Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM) – 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 : Notify RCA by 09/15/2022, 5pm, if you are interested in submitting to this program. Include the S-STEM-eligible discipline(s) that will be targeted by the planned proposal.

The main goal of the S-STEM program [[NSF 22-527](#)] is to enable low-income students with academic ability, talent or potential to pursue successful careers in promising STEM fields. Ultimately, the S-STEM program seeks to increase the number of low-income students who graduate with a S-STEM eligible degree and contribute to the American innovation economy with their STEM knowledge. Recognizing that financial aid alone cannot increase retention and graduation in STEM, the program provides awards to institutions of higher education (IHEs) not only to fund scholarships, but also to adapt, implement, and study evidence-based curricular and co-curricular activities that have been shown to be effective supporting recruitment, retention, transfer (if appropriate), student success, academic / career pathways, and graduation in STEM.

S-STEM Eligible Degree Programs include:

- Associate of Arts, Associate of Science, Associate of Engineering, and Associate of Applied Science;
- Bachelor of Arts, Bachelor of Science, Bachelor of Engineering and Bachelor of Applied Science;
- Master of Arts, Master of Science and Master of Engineering; and
- Doctoral.

S-STEM Eligible Disciplines:

- Disciplinary fields in which research is funded by NSF, with the following exceptions:
 - Clinical degree programs, including medical degrees, nursing, veterinary medicine, physical therapy, and others not funded by NSF, are ineligible degrees.
 - Business school programs that lead to Bachelor of Arts or Science in Business Administration degrees (BABA / BSBA / BBA) are not eligible for S-STEM funding.
 - Masters and Doctoral degrees in Business Administration are also excluded.
- Technology fields associated with the S-STEM-eligible disciplines (e.g., biotechnology, chemical technology, engineering technology, information technology).

LIMITED SUBMISSION:

An institution may submit up to two proposals (either as a single institution or as subawardee or a member of an inter-institutional consortia project) for a given S-STEM deadline. Multiple proposals from an institution must not overlap with regard to S-STEM eligible disciplines.

Note: NDSU has an active S-STEM award targeting students who are pursuing bachelor's degree in biological sciences, so NDSU is ineligible to submit another proposal targeting the same student population (bachelor's degree in biological sciences).

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USDA-NIFA: Bioproduct Pilot Program

The [Bioproduct Pilot Program](#) seeks to study the benefits of using materials derived from covered agricultural commodities for manufacture of construction and consumer products.

The program will advance development of cost-competitive bioproducts with environmental benefits compared to incumbent products. The program seeks projects that will study the benefits of using materials derived from covered agricultural commodities for production of construction and consumer products. Applications must address all of the following priorities:

1. bioproduct development and production scale-up;
2. cost savings relative to other commonly used materials;
3. greenhouse gas emission reductions and other environmental and climate benefits relative to other commonly used materials; and
4. landfill quantity and waste management cost reductions, including life-cycle and longevity-extending or longevity-reducing characteristics relative to other commonly used materials.

In addition to the priorities above, applicants are highly encouraged to include the following:

5. a technoeconomic analysis (TEA), including baseline data that helps prioritize project activities, which should compare the biobased product of interest to incumbent products on the market, including product specifications and pricing;
6. analyses of environmental benefits (such as greenhouse gas emissions, waste management benefits, and other relevant benefits) must include baseline data that will help prioritize project activities.
7. analyses should compare the biobased product of interest to an incumbent product on the market, including product specifications. Quantification of benefits should be measured using standards that are transparent, rigorous, and industrially relevant (such as American Society for Testing and Materials (ASTM) standards, National Institute of Standards and Technology (NIST) standards, widely adopted life cycle analysis (LCA) methodologies, and / or Environmental Product Declarations (EPDs));
8. a justification of the industrial relevance of the chosen scale for scale-up activities;
9. a discussion of the market impact and expected path to market for bioproducts advanced by a potential award;
10. industry partners for critical commercialization steps, including discussion of how USDA funding will be leveraged with private sector resources.

Deadline: August 31, 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.