NDSU OFFICE OF RESEARCH AND CREATIVE ACTIVITY

RCA UPDATE

June 12, 2023

Candidates for RCA Associate VP for Research and Faculty Development

Next week, RCA will be hosting candidates for the Associate Vice President (AVP) for Research and Faculty Development position. The AVP will serve in the inner leadership circle of the VP RCA and play a vital role in NDSU's efforts to pursue strategic research priorities with both state and federal funding potential as well as increase faculty success in securing external funding.

Key areas the AVP is charged with include
- establishing processes to fulfill key responsibilities in research development
- ensuring faculty development that leads to greater success in their research and creative endeavors
- providing strategic advice to the VP RCA to identify and address gaps, capitalize on opportunities and leverage resources and assets for greater return on investment.

Two applicants for this position will give a 20-minute presentation about the topic "*Challenges, opportunities, and goals in growing NDSU's research portfolio through faculty development*" with a Q&A following the presentations. We invite you to attend either in person or online.

- **Ying Shang, PhD**
  Wednesday, June 21, 2023 | 2:00-2:45pm | Morrill 103

- [Cover letter and resume](#)
- [Open Forum](#)
- **Heidi E. Grunwald, PhD**
  Thursday, June 22, 2023 | 2:00-2:45pm | Morrill 103
  - [Cover letter and resume](#)
  - [Open Forum](#)

These presentations will be recorded.

To provide feedback on these candidates, please use this [feedback form](#).

Thanks to Saurabhi Satam

Business Development and Licensing Associate Saurabhi Satam will be leaving NDSU and the NDSU Research Foundation on Friday, June 16. She has accepted a position at her alma mater, University of Delaware, as a Business Development and Licensing Associate.

Please join us in a farewell reception for Sau on Thursday, June 15 at 3pm in room 148 in the R1 building.

Need assistance with your grant proposal?

Research Development can help with that!
- Provide a non-technical review and edit of proposal documents
- Assist with supporting documentation
- Review the proposal package for compliance with solicitation requirements

Research Development is also here to help find funding opportunities, answer questions, and make connections. If you need help with other proposal components or resources, please reach out.

We are located in the Research 1 building, or you can email us at:
ndsu.researchdev@ndsu.edu

Biosafety Cabinet Certification service on hold at UND

The UND Department of Public Safety will be putting the Biosafety Cabinet training certification service on hold starting July 31, 2023. The Safety office will make their best efforts to schedule annual certifications until that time.
For future services, the Safety office recommends Kurt Joly, owner of BioCert Testing from Minneapolis (biocerttesting.com)
Contact Brandon Gustafson, Associate Director – Environmental Health and Safety (701) 231-6299 with any questions.

NIH Common Fund is Soliciting Ideas for NIH-wide Challenges and Opportunities

The NIH requests ideas for biomedical and behavioral research challenges and opportunities that may be of interest to the Common Fund. These ideas may inform activities to advance areas of science relevant to these challenges/opportunities,

including, but not limited to, scientific workshops, pilot initiatives, and/or future Common Fund programs.

NIH encourages idea submissions that may include, but are not limited to, the following:

- A critical challenge or exciting emerging opportunity in biomedical/behavioral research
- Resources, tools, or knowledge that are needed to address the important challenge or opportunity
- Scientific advancements or other factors that make addressing the important challenge or opportunity particularly timely

Responses must be received by August 11, 2023

NIH is looking for peer reviewers

The National Institute of Health (NIH) is looking to expand the pool of peer reviewers with mental health researchers who can bring diverse perspectives to the peer review process. Find out why you might want to apply and how to get involved.

Learn how to get <u>involved >></u>

November 28-30, 2023; Washington DC

Entering its eleventh year, the annual Defense TechConnect (DTC) Summit, co-located with the Fall SBIR/STTR Innovation Conference and Operational Energy and Logistics Summit (OE&L), brings together defense, private industry, federal agency, and academic leadership to accelerate state-of-the-art technology solutions for the military and national security. This year's key focus areas include but are not limited to **energy**, **climate**, **cyber**, **biodefense**, **space**, **advanced manufacturing**, and **5G**.

<u>Learn more >></u>

Upcoming Events at a Glance

- **LIFE: Leveraging Innovations From Evolution**
  Register by **END OF DAY** June 12, 2023 | *Register and Learn More >>*
  - In Person Sessions August 14, 15, 16
  - Virtual Sessions September 11, 13, 15

- **Notice of Informational Webinar for NIH Research Enhancement award (R15) Programs**
  Thursday, June 15, 2023 / 1:30-2:30pm | *Learn More >>*

- **59th Meeting of the NIH Advisory Committee on Research on Women's Health**
  October 18, 2023 | *Learn more >>*

Funding Opportunities

- NDSU Foundation: Impact Fund Grant Program
- DoD: Congressionally Directed Medical Research Programs
- DoD: Reconstructive Transplant Research Programs
- ED: Transformative Research in the Education Sciences Grant Program
- DOI: Great Plains Cooperative Ecosystem Studies Unit Programs
- NEH: Dialogues on the Experience of War
- NIH: Accelerating Behavioral and Social Science through Ontology Development and Use – Research Network Projects
- NIH: Investigator-Initiated Research in Genomics and Health Equity
- NIH: National Institute of Allergy and Infectious Disease New Innovators Awards
- NIH: Time-Sensitive Research Opportunities in Environmental Health Sciences
- NIJ: Research and Evaluation on Correctional Culture and Climate
- NSF: Computational and Data-Enabled Science and Engineering
- NSF: Discovery Research PreK-12
- NSF: Division of Environmental Biology
- NSF: Energy, Power, Control and Networks
- NSF: Infrastructure Capacity for Biological Research
- NSF: Pathways to Enable Open-Source Ecosystems
- USDA: Soil and Plant Science Division Collaborative Soil Science Research

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 date.

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

- NSF: Major Research Instrumentation
  Notification deadline (extended): 06/12/2023

There are a number of limited submission grant programs with upcoming agency deadlines for which we did not receive any notifications of interest. 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.

- Stanley Smith Horticultural Trust: Stanley Smith Horticultural Trust
  LOI deadline: 06/15/2023
- NSF: Building the Prototype Open Knowledge Network (Proto-OKN)
  Deadline: 06/20/2023
- NSF: Expanding AI Innovation through Capacity Building and Partnerships
  Deadline: 06/26/2023
- HRSA: Nurse Education, Practice, Quality, and Retention (NEPQR) Simulation Education Training (SET) Program
  Deadline: 07/03/2023
- NEA: Grants for Arts
  Deadline: 07/06/2023
- HRSA: Healthy Start Initiative - Eliminating Racial/Ethnic Disparities
  Deadline: 07/17/2023
- USDA: Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers and Veteran Farmers and Ranchers
  Deadline: 07/25/2023
- Mathers Foundation: Grant Program (STEM)
  LOI deadline: 07/28/2023

NDSU Foundation: Impact Fund Grant Program

The NDSU Impact Fund Grant Program provides funding for projects, technology, and programs that help meet the university's changing needs and have a direct, positive impact on the entire NDSU community. NDSU Impact Fund Grant awards range from $20,000 to $75,000. The NDSU Foundation's Board of Trustees Grants and Awards Committee reviews applications from across campus and selects proposals that will enhance the educational experience for students at NDSU.

Deadline: August 2, 2023; 4:30PM

DoD: Congressionally Directed Medical Research Programs

The Department of Defense has a series of Congressionally Directed Medical Research Programs (CDMRP). These programs fill the gaps by funding high impact, high risk and high gain projects that other agencies may not venture to fund.

Some of the current programs available are:

Kidney Cancer Research Program (KCRP)
- Academy of Kidney Cancer Investigators Early-Career Scholar Award
  Pre-application Deadline: September 15, 2023; 4PM
- Clinical Trial Award
  Pre-application Deadline: September 15, 2023; 4PM
- Concept Award
  Pre-application Deadline: July 20, 2023; 4PM
- Idea Development Award
  Pre-application Deadline: September 15, 2023; 4PM
- Nurse-Initiated Research
  Pre-application Deadline: September 15, 2023; 4PM
- Postdoctoral and Clinical Fellowship Award
  Pre-application Deadline: July 20, 2023; 4PM

- Translational Research Partnership Award
  Pre-application Deadline: September 15, 2023

Prostate Cancer Research Program (PCRP)

- Data Science Award
  Pre-application Deadline: August 3, 2023; 4PM
- Early Investigator Research Award
  Pre-application Deadline: August 3, 2023; 4PM
- Exploration – Hypothesis Development Award
  Pre-application Deadline: June 22, 2023; 4PM
- Health Disparity Research Award
  Pre-application Deadline: August 3, 2023; 4PM
- Idea Development Award
  Pre-application Deadline: June 29, 2023; 4PM
- Physician Research Award
  Pre-application Deadline: August 3, 2023; 4PM
- Translational Science Award
  Pre-application Deadline: August 3, 2023; 4PM

For a full list of Funding Opportunities please visit here: <u>https://cdmrp.health.mil/funding/</u>

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DoD: Reconstructive Transplant Research Programs

The Reconstructive Transplant Research Program challenges the scientific community to design innovative research that will advance science and standardized clinical practice of vascularized composite allotransplantation (VCA) to improve access, safety, and quality of life for catastrophically injured Service Members, Veterans, and American civilians. VCA refers to the transplantation of multiple tissues such as muscle, bone, nerve, and skin as a functional unit (hand or face) from a deceased donor to a recipient with a severe injury. The ultimate goal is to return injured Service Members to duty and restore their quality of life.

The <u>Advanced Technology Development Award</u> is intended to support research critical for the translation of promising preclinical findings into products focus on reconstructive transplantation.

The <u>Idea Discovery Award</u> is intended to **support innovative, untested, high-risk/ potentially high-reward concepts, theories, paradigms, and/or methods** relevant to

reconstructive transplant. The outcome of research supported by this award should be the generation of robust data that can be used as a foundation for new avenues of scientific investigation.

The Investigator-Initiated Award is intended to support studies that have the potential to make an important contribution to reconstructive transplant research, patient care, and/or quality of life. Though the RTRP Investigator-Initiated Research Award mechanism supports groundbreaking research, all projects must demonstrate solid scientific rationale with military-relevant utility.

Pre-application Deadline for each award: July 19, 2023; 4PM

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ED: Transformative Research in the Education Sciences Grant Program

Through the Transformative Research in the Education Sciences Grant program, the Institute of Education Sciences (IES) in the Department of Education (ED) seeks to support innovative and unconventional research that has the potential to make dramatic advances towards solving seemingly intractable problems and challenges in the education field and/or to accelerate the pace of conducting education research to facilitate major breakthroughs. Research in the Education Sciences grant program will have a special focus on accelerating learning and reducing persistent education inequities by leveraging evidence-based principles from the learning sciences with advanced technology to create high reward, scalable solutions. In awarding research grants, the IES intends to provide national leadership in expanding knowledge and understanding of (1) education outcomes for all learners from early childhood education through postsecondary and adult education, and (2) employment and wage outcomes when relevant (such as for those engaged in career and technical, postsecondary, or adult education).

Deadline: August 17, 2023

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DOI: Great Plains Cooperative Ecosystem Studies Unit Programs

The United States Geological Survey's (USGS) Next Generation Water Observing System (NGWOS) Program is offering funding opportunities to Great Plains Cooperative Ecosystem Studies Unit (CESU) Partners (including NDSU) for research projects. The NGWOS provides high-fidelity, real-time data on water quantity and quality necessary to support modern water prediction and decision support systems for water emergencies and daily water operations.

Water Budget Monitoring Technology [G23AS00398]
The overall objective of this research is to deploy newly developed, economical one-dimensional ET sensors for paired intercomparisons with traditional eddy covariance stations and evaluate the potential for use in large-scale ET measurement networks. Evaluation sites will cover range of land use and climatic conditions including agricultural fields, rangelands, phreatophyte vegetation, and open water sites to test over a range of conditions.

To achieve this objective, the following tasks will be completed:
1. Develop system requirements document and field plan.
2. Identify deployment locations and deploy all sensors and associated equipment.
3. Develop workflows for data processing, quality assurance, energy balance closure, and intercomparisons.

Non-Contact Methods to Measure Stream Bathymetry [G23AS00392]
The objective of this project is to enable stream gaging in shallow rivers with frequently changing geomorphologies by 1) operationalizing two fixed-mount, single-beam lidar sensors capable of measuring cross-sectional topography and 2) integrating measurements from the sensor into USGS workflows and software to telemeter cross-sectional topography data and produce real-time, stage-area ratings remotely.

To achieve this objective, the following tasks will be completed:
1. Operationalize 2 single-beam scanning lidar sensors and telemetry capabilities for measuring cross-sectional topography in shallow rivers in a controlled lab setting.
2. Test the lidar sensors at 2 USGS radar gage sites, likely in Colorado (the location of the USGS PoC), where baseflows are relatively clear and shallow (< 1 meter deep). The lidar sensors will be collocated with a noncontact radar, and ideally also collocated with continuous water quality instruments and cameras.
3. Publish findings in a peer-reviewed journal article and USGS Data Release to document the operation, accuracy, and limitations of the lidar sensor.

Deadline: July 7, 2023; 4PM

NEH: Dialogues on the Experience of War

The Dialogues on the Experience of War program supports the study and discussion of humanities sources that address the experiences of military service and war from a wide variety of perspectives. In recognition of the importance of the humanities in helping Americans to understand the meaning and experiences of military service and war. Dialogues projects encourage veterans and nonveterans to reflect collectively on such topics as civic engagement, veteran identity, the legacies of war, service, and homecoming. Project teams should include humanities scholars, military veterans, and individuals with relevant experience.

Optional Draft Due: July 27, 2023
Deadline: September 7, 2023

NIH: Accelerating Behavioral and Social Science through Ontology Development and Use – Research Network Projects (U01 Clinical Trials Not Allowed)

This Notice of Funding Opportunity [PAR-23-182] invites applications to support research projects focused on the expansion of existing or development of new ontologies for behavioral or social science research (BSSR). The research projects must include multi-disciplinary teams of subject matter experts in one or more BSSR fields, as well as ontology related informatics and computational approaches. Projects should address health-related behavioral and social science problems not easily solved without improvement in semantic knowledge structures. Each project should identify one or more BSSR use cases and elucidate how the proposed ontological resources or tools to be developed and tested will advance BSSR research capabilities and efficiencies. This includes a plan for promoting dissemination and use of the resources and tools.

Tools or resources proposed should include health-relevant terminology related to constructs, measures, and/or intervention components. Tools or resources must also account for socio-behavioral cultural context in vocabulary/ontology development. As part of a cooperative agreement, each project will focus on independent ontology

development research aims and be expected to work collaboratively with the Dissemination and Coordination Center (DCC; PAR-23-181) and the other funded projects in a Behavioral and Social Science Ontology Development U01 Research Network.

Letter of Intent Deadline: September 3, 2023

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NIH: Investigator-Initiated Research in Genomics and Health Equity (R21 Clinical Trial Optional)

The purpose of this initiative [PAR-HG-23-018] is to support investigator-initiated research in genomics and health equity, with the ultimate goal of developing approaches, generating and disseminating data, and implementing metrics or interventions that will advance the equitable use of genomics to improve health in U.S. populations. Awardees will conduct innovative and generalizable research in genomics and health equity spanning across genomic research areas and will incorporate a plan for enhancing diverse perspectives. This Funding Opportunity will support small research projects that can be carried out in a short period of time with limited resources. The R21 grant mechanism supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Applications supporting New or Early Stage Investigators from diverse backgrounds, including those from groups traditionally underrepresented in the biomedical, behavioral, and clinical research workforce.

Letter of Intent Deadline: October 8, 2023

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NIH: National Institute of Allergy and Infectious Disease New Innovators Awards (DP2 Clinical Trial Not Allowed)

The NIAID New Innovator Award [PAR-23-198] supports postdoctoral and other candidates in non-independent positions or newly independent Early Stage Investigators of exceptional creativity who propose novel, original and insightful research concepts with the potential to produce a major impact, test scientific paradigms, or advance key

concepts on broad, important problems in biomedical research of priority to NIAID. Applications proposing unexpected convergence of disciplines, new scientific directions, or the use of novel methodologies are encouraged. Applications from individuals with diverse backgrounds and in any topic relevant to the mission of NIAID are welcome.

Letter of Intent Deadline: September 13, 2023

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NIH: Time-Sensitive Research Opportunities in Environmental Health Sciences (R21 Clinical Trial Not Allowed)

This funding opportunity announcement (FOA) [RFA-ES-23-004] is intended to support novel environmental health research in which an unpredictable event or policy change provides a limited window of opportunity to collect human biological samples or environmental exposure data. The primary motivation of the FOA is to understand the consequences of natural and human-made disasters, emerging environmental public health threats, and policy changes in the U.S. and abroad. A distinguishing feature of an appropriate study is the need for rapid review and funding, substantially shorter than the typical NIH grant review/award cycle, for the research question to be addressed and swiftly implemented.

The shortened timeframe will be achieved by more frequent application due dates and expediting peer review, council concurrence and award issuance. The entire cycle, from submission to award, is expected to be within 4-6 months.

Upcoming deadlines: August 1, October 2, December 1

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NIJ: Research and Evaluation on Correctional Culture and Climate

NIJ seeks proposals for rigorous research and evaluation projects that inform our understanding of the impact of Culture and Climate on the ability of correctional agencies to achieve their missions—most fundamentally to maintain a safe, humane and secure environment for both staff and incarcerated individuals in the institutions that they manage; to recruit and retain staff; and to promote and sustain needed changes in their organizational cultures, operations, and programs to better achieve their missions.

Deadline: August 7, 2023

NSF: Computational and Data-Enabled Science and Engineering

Large-scale simulations and the ability to accumulate massive amounts of data have revolutionized science and engineering. The goal of the CDS&E meta-program [PD 22-8084] is to identify and capitalize on opportunities for major scientific and engineering breakthroughs through new computational and data-analysis approaches and best practices. The CDS&E meta-program supports projects that harness computation and data to advance knowledge and accelerate discovery above and beyond the goals of the participating individual programs. The intellectual drivers may be in an individual discipline, or they may cut across more than one discipline in various Divisions and Directorates. A CDS&E proposal should enable and/or utilize development and adaptation of advances in research and infrastructure in computational and data science.

The CDS&E meta-program encourages research that pushes the envelope of science and engineering through computation and data, welcoming proposals in any area of research supported by the participating divisions. A proposal may address topics that develop or enable interactions among theory, computing, experiment, and observation to achieve progress on hitherto intractable science and engineering problems. Areas of emphasis for CDS&E vary by program.

Deadlines vary by program

NSF: Discovery Research PreK-12

The goal of the Discovery Research PreK-12 program (DRK-12) [NSF 23-596] is to catalyze research and development that enhances all preK-12 teachers' and students' opportunities to engage in high-quality learning experiences related to the sciences, technology, engineering, and mathematics (STEM).

The program's objectives are to:
- Build knowledge about how to develop preK-12 students' and teachers' STEM content knowledge, practices, and skills

- Support collaborative partnerships among STEM education researchers, STEM education practitioners and school leaders with the goals of extending relevant scientific literatures while developing more effective practice
- Build the field of STEM education by supporting knowledge synthesis, interdisciplinary interactions across fields and stakeholders, and the development of novel and robust ways of assessing teacher and student learning, engagement, and skills.

The program solicits proposals along two strands: (1) Learning and (2) Teaching. While these strands certainly overlap and have synergy, proposals should identify one strand that is most consistent with the proposal's objectives and research. Research project types under both Strands include exploratory, design and development, impact, implementation, measurement and assessment, and synthesis studies. The program also supports other project types including Partnership Development Grants and Workshops/Conferences.

Deadline: November 8, 2023

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NSF: Division of Environmental Biology

The Division of Environmental Biology (DEB) [NSF 23-549] supports research and training on evolutionary and ecological processes acting at the level of populations, species, communities, and ecosystems. DEB encourages research that elucidates fundamental principles that identify and explain the unity and diversity of life and its interactions with the environment over space and time. Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Science, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Science). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales.

Deadline: Proposals accepted ANYTIME

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NSF: Energy, Power, Control and Networks

The Energy, Power, Control, and Networks (EPCN) Program [PD-18-7607] supports innovative research in modeling, optimization, learning, adaptation, and control of networked multi-agent systems, higher-level decision making, and dynamic resource allocation, as well as risk management in the presence of uncertainty, sub-system failures, and stochastic disturbances. EPCN also invests in novel machine learning algorithms and analysis, adaptive dynamic programming, brain-like networked architectures performing real-time learning, and neuromorphic engineering. EPCN's goal is to encourage research on emerging technologies and applications including energy, transportation, robotics, and biomedical devices & systems. EPCN also emphasizes electric power systems, including generation, transmission, storage, and integration of renewable energy sources into the grid; power electronics and drives; battery management systems; hybrid and electric vehicles; and understanding of the interplay of power systems with associated regulatory & economic structures and with consumer behavior.

Areas managed by Program Directors:
- Control Systems
- Energy and Power Systems
- Power Electronics Systems
- Learning and Adaptive Systems

Deadline: Proposals accepted ANYTIME

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NSF: Infrastructure Capacity for Biological Research

The Infrastructure Capacity for Biological Research (Capacity) Program [NSF 23-580] supports the implementation of, scaling of, or major improvements to research tools, products, and services that advance contemporary biology in any research area supported by the Directorate for Biological Sciences at NSF. The Capacity Program focuses on building capacity in research infrastructure that is broadly applicable to a wide range of researchers in three programmatic areas: Cyberinfrastructure, Biological Collections, and Biological Field Stations and Marine Laboratories. This program will also accept proposals for planning activities or workshops to facilitate coordination that may be necessary in building capacity in infrastructure that meets the needs of a research community. Areas not included in this program are instrumentation and, projects that develop infrastructure for a specific research project, laboratory, or institution. Projects are expected to produce

quality products, result in important science outcomes that will be achieved by the users of the resource, be openly accessible to a broad scientific and education community, and serve a community of researchers beyond a single research team.

The three programmatic areas of the Capacity Program are described below. Please see links for further information in each area. PIs are encouraged to contact the program officers if they have questions about where to submit a proposal within this solicitation or if their proposed work cuts across one or more of these programmatic areas.

- Cyberinfrastructure Programmatic Area:
  The Cyberinfrastructure Programmatic Area supports the implementation of, scaling of, or major improvement to cyberinfrastructure for biology that advances or transforms contemporary biology and that is broadly applicable to a wide range of researchers.

- Biological Collections Programmatic Area:
  The Biological Collections Programmatic Area supports major improvements to or digitization of biological collections and collection-based information, enabling the advancement of biological understanding in important research areas, and increasing the broader applicability of collections.

- Biological Field Stations and Marine Laboratories Programmatic Area:
  The Biological Field Stations and Marine Laboratories Programmatic Area supports major improvements to biological field stations or laboratories in any terrestrial, marine, estuarine, or freshwater environment for research and education.

Deadline: Proposals accepted ANYTIME

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NSF: Pathways to Enable Open-Source Ecosystems

The Pathways to Enable Open-Source Ecosystems (POSE) program [NSF 23-556] aims to harness the power of open-source development for the creation of new technology solutions to problems of national and societal importance. The overarching vision of POSE is that proactive and intentional formation of managing organizations will ensure a broader and more diverse adoption of open-source products; increased coordination of external intellectual content developer contributions; and a more focused route to

technologies with broad societal impact. Toward this end, the POSE program supports the formation of new OSE managing organizations based on an existing open-source product or class of products, whereby each organization is responsible for the creation and management of processes and infrastructure needed for the efficient and secure development and maintenance of an OSE.

POSE constitutes a new pathway to translate scientific innovations, akin to the Lab-to-Market Platform that NSF has pioneered over many decades. Whereas programs like the NSF Innovation Corps (I-Corps), Partnerships for Innovation (PFI) and Small Business Innovation Research and Small Business Technology Transfer (SBIR and STTR) represent an integrated set of programs to provide researchers with the capacity to transform their fundamental research into deep technology ventures, POSE is specifically focused on another translational pathway – supporting the transition from open-source research artifacts to OSEs.

Deadline: September 7, 2023

USDA: Soil and Plant Science Division Collaborative Soil Science Research

The purpose of the 2023 [Soil Survey Cooperative Research Proposals](#) is to promote research that informs and improves soil survey. As such, each proposal must include significant collaboration with soil survey personnel (such as National Soil Survey Center Research staff, Major Land Resource Area (MLRA) Soil Survey or Regional offices). The proposal's deliverables and their connection to soil survey must be clearly explained.

It is expected that this funding opportunity will select at least one proposal for funding from each region. The work should have regional application and fill gaps in soil survey knowledge and databases.

Within the NCSS region where the work occurs, proposals topics should:
- Address emerging issues such as urban soil survey, ecosystem services, wetlands/hydric soils, climate, wildfire and/or soil biodiversity and how those topics intersect with ecological sites and soil survey.

- Enhance collaborative efforts between soil survey staff and cooperative research projects with emphasis on practical tools for MLRA staff and use of long-term monitoring and experiment locations.
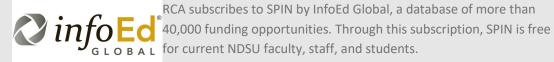
Extra consideration will be given to proposals that include Dynamic Soil Survey Research Support (targeted towards close collaboration with National Soil Survey Center researchers).

Eligibility is limited to institutions of higher education in the Cooperative Ecosystem Studies Unit (CESU); NDSU is a member of the Great Plains CESU.

Deadline: July 22, 2023

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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.

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.

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

Contact Us