

RCA UPDATE

August 30, 2021

September Science Events at NDSU

Plants, Local Foods, and Outdoor Spaces September 2, 2021

This public event hosted by Plant Sciences will feature garden tours, presentations, and children's activities along with a riding tour of small fruits, grapes, vegetables, melons, and irrigation horticultural research plots. Veggies for the Pantry will be on hand to collect fresh produce for delivery to the Fargo Emergency Food Pantry. <u>Learn more >></u>

September Science Café September 14, 2021

The topic for the first NDSU Science Café of the academic year is "COVID-19: Not the First Pandemic, So Why So Much Misinformation and Confusion?" and will be presented by Andrew "Mazz" Marry, associate professor of biosciences at Minnesota State University Moorhead. *Learn more >>*

NDSU Research Symposium on Mental Health September 24, 2021

Poster abstracts due August 31, 2021

Sponsored by the President's Council for Campus Well-being (PCCW) and the Office of Research and Creative Activity (RCA), this research symposium will include presentations

by three researchers followed by a poster session. Faculty and graduate students are invited to submit proposals for the poster session. <u>Learn more and register >></u>

Shelly Sandstrom Moving to Grant and Contract Accounting

Shelly Sandstrom, Program Assistant in Sponsored Programs Administration (SPA), has accepted another position within NDSU. Starting September 1, 2021, Shelly will be assuming her new role as a Grants and Contracts Officer with Grant and Contract Accounting (GCA). Shelly has been part of our SPA team since early 2014, and she has been with NDSU since June of 1996! While we are very sad to see her leave SPA, we are so excited for her and the new opportunity in GCA. NDSU is fortunate to retain Shelly's years of experience and institutional knowledge. Please join SPA in wishing Shelly good luck in her new role!

If you previously contacted Shelly directly for SPA support or questions, please send any such inquiries to ndsu.research@ndsu.edu to reach out to other SPA staff. It is anticipated that SPA will be initiating a search soon to fill the vacancy left by Shelly's departure.

IACUC Rodent Training Series - Registration Open

The NDSU Rodent Training Series is a four course training series which covers basic mouse handling and techniques. The series is designed to provide foundational training and experience for faculty, staff, and students. Participation in all sessions is encouraged. Space is limited so register early.

Fall Course Schedule:

- Tuesday, September 21 Mouse Handling and Husbandry
 - o Van Es 105 3:00-4:30
- Tuesday, October 5 <u>Breeding and Colony Management</u>
 - Van Es 105 3:00-4:30

- Tuesday, October 19 <u>SQ</u> and <u>IP</u> Injections and <u>Venipuncture Demonstration</u>
 - o Van Es 105 3:00-4:30
- Tuesday, November 16 <u>Anesthesia, Euthanasia, and Necropsy</u>
 - Sudro Hall 207 3:00-4:30

The Rodent Training Series is sponsored by the Vice President for Research and Creative Activity.

If you have questions regarding the training series, please contact the IACUC Office at 231-8114.

Upcoming Workshops and Events

- NSF Virtual Grants Conference Registration
 September 8, 2021 / Learn more >>
- Virtual Information Session: Dakota Cancer Collaborative on Translational Activity (DaCCoTA)

September 15, 2021 / Learn more >>

 Virtual Workshop: U.S. Customs and Border Protection - Import / Export of Biological Shipments

September 28, 2021 / Learn more >>

- Virtual Workshop: Alan Alda Center for Communicating Science September 28, 2021 / <u>Learn more >></u>
- Virtual Workshop: University-Industry Partnerships in the Social Sciences
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- DEPSCoR Day at USD
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- NSF DCL: Research to Improve STEM Teaching, Learning, and Workforce
 Development for Persons with Disabilities
- NSF: Reproducible Cells and Organoids via Directed- Differentiation Encoding
- RWJF: Building a Culture of Health

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 ndsu.researchdev@ndsu.edu.

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

- Johnson & Johnson: Women in STEM2D Scholars
 Notification Deadline: 09/02/2021
- NIH R25: Genome Research Experiences to Attract Talented Undergraduates into the Genomics Field to Enhance Diversity

Notification Deadline: 9/15/2021

VentureWell Faculty Grants

Notification Deadline: 09/15/2021

NSF: Major Research Instrumentation (MRI)

Notification Deadline: 9/29/2021

• NSF: Innovations in Graduate Education

Notification Deadline: 09/30/2021

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>.

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>.

DARPA: Learning Introspective Control

The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative proposals [HR001121S0036] in the following areas of interest:

- adaptive control,
- generative adversarial networks,
- self-repairing systems,
- autonomous control,
- dynamic control, and
- operator cueing.

Abstract deadline: September 13, 2021

DOI: Science and Technology Projects Related to Coal Mining and Reclamation; Applied Science Projects

The United States Department of the Interior (DOI), Office of Surface Mining Reclamation and Enforcement (OSMRE) is requesting Applied Science proposals for projects that develop and demonstrate improved science and technologies related to the mining of coal and the reclamation of the land after mining [S21AS00363].

Applicants may request funding up to \$200,000. The award will be by cooperative agreement (or as an Interagency Agreement if another Federal Agency is involved). Each cooperative agreement will be for a period of time consistent with the proposal but not to exceed two years from date of award.

OSMRE will only accept proposals that address the specific list of eligible issues:

- 1. long-term considerations for treatment of abandoned and post-mining discharges;
- 2. validation of current water treatment chemical model assumptions;
- 3. optimization of sludge dewatering / disposal methods at mine drainage sites;
- 4. evaluation of the potential for economical and environmentally friendly extraction of rare earth elements from coal mine waste or impacted water discharges;
- 5. application of imagery and remote sensing in the mining / reclamation context;
- 6. advances in wastewater and acid mine drainage treatment processes, particularly with focus on biodynamic and microbiological innovation;
- 7. geoengineering and design-based concepts for reforming AML and former mine sites to maximize potential for agricultural and food-centric post-mining land use;
- 8. advances in mining or reclamation methods that provide for more effective, efficient, or lower-impact extraction of coal;
- 9. investigation of ways of minimizing impacts from invasive species in the mining / reclamation context; and
- 10. post-reclamation: annual maintenance cost projections, calculations and funding provisions.

Deadline: October 7, 2021

ND EPSCoR: STEM Research, Education, and Outreach - NDSUspecific solicitation

The ND EPSCoR State Office has released a Request for Proposals that is only open to faculty at the NDSU campus. Proposals are accepted in the following categories:

- educational / instructional equipment;
- 2. equipment repair;
- 3. undergraduate research;
- 4. seed awards for faculty to collect preliminary data for the preparation of federal STEM proposals;
- 5. external proposal review for large, collaborative and interdisciplinary STEM efforts;
- 6. seed awards for faculty and students to engage K-12 in STEM outreach activities;
- 7. development of online / virtual modules for STEM courses;
- 8. seed awards for community-based STEM outreach; and
- 9. electronic STEM data sets.

Please see the Request for Proposals for details.

Deadline: September 30, 2021, noon

See also the state-wide Request for Proposals.

Deadline: September 21, 2021, noon

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NEH: Public Scholars

The <u>Public Scholars program</u> supports the creation of well-researched nonfiction books in the humanities written for the broad public. It does so by offering grants to individual authors for research, writing, travel, and other activities leading to publication. Writers with or without an academic affiliation may apply, and no advanced degree is required. The program is intended both to encourage non-academic writers to deepen their engagement with the humanities by strengthening the research underlying their books and to encourage academic writers in the humanities to communicate the significance of their research to the broadest possible range of readers.

Deadline: December 15, 2021

NIH NOSI: Research Supplements to Promote Re-Entry and Reintegration into Health-Related Research Careers (Admin Supplement - Clinical Trial Not Allowed)

The goal of this program [NOT-OD-21-134] is to provide support for a mentored research training experience for individuals with high potential to re-enter or re-integrate into an active research career, after an interruption for family responsibilities or other qualifying circumstances. This program encourages re-entry and re-integration administrative supplement applications to existing NIH research grants to support full or part-time mentored research experiences by these individuals. The supplement grants are intended to provide these scientists an opportunity to update or extend their research skills and knowledge and prepare them to re-establish their careers in basic biomedical, behavioral, clinical, translational or social science research.

The **Re-entry Supplements** program is intended to provide mentored research training opportunities for a minimum of 1 year to re-enter biomedical research to individuals with doctoral degrees, who have interrupted their research careers for family responsibilities or other qualifying circumstances. Candidates for the Re-entry supplements will have a doctoral degree; though in some NIH institutes and centers, pre-doctoral students, including those enrolled in dual-degree programs, may also be eligible to apply.

The Re-integration Program addresses the critical need to provide individuals, including predoctoral students, who are adversely affected by unsafe or discriminatory environments resulting from unlawful harassment, to rapidly transition into new safer, and more supportive research environments. The goal is to provide these individuals a timely and seamless continuation of their research training programs and to safely reintegrate into the biomedical workforce. Unsafe environments may consist of threatening behavior such as sexual and gender harassment; harassment based on being a member of a racial, ethnic, sexual, or gender minority group; disability-based aggression; aggressions associated with religion; and other similar circumstances. Post-doctoral and predoctoral students are eligible to apply for Re-integration supplements to allow them to transition to a new, safe and supportive research environment and complete their graduate degree.

Deadlines vary by Institute / Center.

NSF DCL: Research to Improve STEM Teaching, Learning, and Workforce Development for Persons with Disabilities

The National Science Foundation's (NSF's) Directorate for Education and Human Resources (EHR) wishes to notify the community of its intention to support fundamental and applied research on science, technology, engineering and mathematics (STEM) teaching, learning, and workforce development for persons with disabilities, as defined by the Individuals with Disabilities Education Act (Sec. 300.8). NSF intends to support fundamental and applied research and the development of innovative STEM teaching and learning approaches to be implemented for persons with disabilities from the earliest developmental stages of life through participation in the workforce. With this Dear Colleague Letter (DCL), NSF invites proposals focused on advancing knowledge and developing innovative research-based interventions to improve STEM teaching, learning, and workforce development for individuals with disabilities. Research about persons with disabilities in STEM and STEM education includes fundamental and applied research, with a particular focus on efforts to understand and address disability-based differences in STEM teaching, learning, workforce preparation and employment. Proposers are encouraged to explore a wide range of fundamental and applied research and development projects.

For a full list of participating programs and areas of interest, see the full DCL.

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NSF: Reproducible Cells and Organoids via Directed-Differentiation Encoding (RECODE)

The National Science Foundation (NSF) Divisions of Chemical, Bioengineering, Environmental and Transport Systems (CBET), Integrative and Organismal Systems (IOS), Molecular and Cellular Biosciences (MCB), and Civil, Mechanical, and Manufacturing Innovation (CMMI) seek proposals [NSF 21-608] that elucidate mechanisms of, and develop strategies to, direct the differentiation of undifferentiated cells into mature, functional cells or organoids. Projects responsive to this solicitation must aim to establish a robustly validated and reproducible set of differentiation design rules, mechanistic

models, real-time sensing, control, and quality assurance methods, and integrate them into a workable differentiation strategy. They must also deepen our fundamental understanding of how cells develop and differentiate, to provide insights into mechanisms, molecular machinery, dynamics, and the interplay between cells and their environment, such as cell-cell/cell-microbe and cell-extracellular matrix (ECM) interactions and use this understanding to manipulate cells purposefully. Investigators can choose any undifferentiated cell type from any animal species, including human cell types, as a starting point and choose any appropriate functional product (cell, organoid, etc.) with real-world relevance. The use of non-model systems (e.g., non-human or non-murine systems) is encouraged as is the exploration of non-medical targets. Functional products can span a diverse range of systems (cardiovascular, nervous, immune, etc.).

Pre-proposal deadline: November 22, 2021

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Robert Wood Johnson Foundation: Building a Culture of Health

The Robert Wood Johnson Foundation has two open calls for proposals related to building a Culture of Health:

- Evidence for Action: Investigator-Initiated Research to Build a Culture of Health
- Pioneering Ideas: Exploring the Future to Build a Culture of Health

A Culture of Health is broadly defined as one in which good health and well-being flourish across geographic, demographic, and social sectors; public and private decision-making is guided by the goal of fostering equitable communities; and everyone has the opportunity to make choices that lead to healthy lifestyles.

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NSF Virtual Grants Conference: Registration Opening

September 8, 2021 | 11:00am

The National Science Foundation (NSF) Fall 2021 NSF Virtual Grants Conference will be held during the week of October 4-8, 2021.

Registration will be free of charge and opens on Wednesday, September 8 at 12 p.m. EST.

NSF anticipates that the sessions will reach capacity very quickly, so you are encouraged to register as soon as possible. NSF will send a *Registration is Open* email, which will provide the registration links and details for this event.

In the meantime, please feel free to check <u>nsfpolicyoutreach.com</u> for the most up-to-date information and view <u>recordings</u> of sessions from previous conferences. You may also view the Spring 2021 Virtual Grants Conference recordings on the NSF <u>YouTube</u> page. For those who cannot attend the live conference, all recorded conference sessions will be available on-demand shortly after the event and posted on the NSF <u>website</u> and <u>YouTube</u> page.

If you have any logistical questions about this virtual conference, please contact: grants_conference@nsf.gov.

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Virtual Information Session: Dakota Cancer Collaborative on Translational Activity

September 15, 2021 | 12:00pm

The Professional Development Core (PDC) of the Dakota Cancer Collaborative on Translational Activity (<u>DaCCoTA</u>) will be hosting a virtual information session to promote our mission and offer assistance to prospective applicants. The agenda includes:

- Meet the Professional Development Core Staff and Awardees
- Learn about the Collaborative's Mission
- Discover Grant Opportunities
- Improve NIH R21 Grantwriting Skills

Zoom Link: https://usd.zoom.us/j/95060719359

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U.S. Customs and Border Protection: Pembina Virtual Biologic Workshop

September 28, 2021

U.S. Customs and Border Protection is hosting <u>this event</u> to explore the requirements for international importation and exportation of biological shipments for testing and research purposes. Presenting will be representatives from several federal government agencies sharing their responsibilities and discussing regulatory requirements that must be met to import and export biologic materials.

U.S. Customs and Border Protection mission is to prevent entry and mitigate risks of biological threats to American agriculture, public health and natural resources. These threats include infectious pathogenic organisms; select agents and toxins; and living and non-living vectors that have the potential to pose a threat to public health and introduce foreign animal diseases and plant pests.

Participating Government Agencies include:

Federal Bureau of Investigation, US Food and Drug Administration, Centers for Disease Control, Customs and Border Protection, US Department of Agriculture, ND Department of Agriculture, US Fish and Wildlife Service, Federal Select Agents Program, and US Department of Transportation.

To register, contact <u>neil.halley@cbp.dhs.gov</u>.

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Alan Alda Center for Communicating Science: Creating Connections Virtual Workshop

September 28, 2021 | 2:00pm

The ND EPSCOR State Office is sponsoring a "Creating Connections" workshop by the Alan Alda Center for Communicating Science. "Creating Connections" is a two-hour live, online workshop. The Alda Method is a unique approach to science communication training that combines improvisational theatre-based techniques with message design strategies, including analogies and narrative. This immersive method emphasizes two-way communication to build trust and invite others to share in the wonder and joy of science. The process incorporates research and best practices from science communication, journalism, ethics, and other relevant fields. Contact Shireen Alemadi with questions about this workshop.

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Virtual Workshop: University-Industry Partnerships in the Social Sciences

October 14, 2021 | 10:00am-1:00pm

The University of Maryland, College Park, in collaboration with <u>UIDP</u> and with support from the <u>National Science Foundation</u>, <u>MITRE</u>, and the <u>Consortium of Social Science</u>
<u>Associations</u>, will host a two-part workshop, convening a diverse group of experts and leaders from academia, industry, and government to consider how academic-corporate partnerships can advance social, behavioral, and organizational science research to positively impact science and society.

With the rapid growth of social networks over the last two decades and the corresponding availability of big data, the behavioral and social sciences have become increasingly important to the development and growth of organizations' capacity to understand and address global challenges. The COVID-19 pandemic has underscored the importance of social science research during societal crises. Social, behavioral, and organizational science can help institutions address societal needs, and these contributions can be magnified through collaborations between academia and industry.

This virtual workshop is free, but <u>registration</u> is required.

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DEPSCoR Regional DoD Day

October 20, 2021 | USD, Vermillion, SD

The University of South Dakota is hosting a Department of Defense (DoD) Regional DEPSCoR Day, where DoD program managers will provide information about the Defense Established Program to Stimulate Competitive Research (DEPSCoR) program and general information about working with the DoD. For more information, please see: DEPSCoR Regional DoD Day.

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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