

July 15, 2019

## **NDAWN Weather Network Benefits from Oil Industry Roads Project**



A partnership between the oil industry and the North Dakota Agricultural Weather Network (NDAWN) has resulted in the mutually-beneficial outcome of new remote weather stations added to the network that will help monitor road conditions in western North Dakota.

The project, called Wise Roads (Weather Information System to Effectively Reduce Oilfield delays And Disruptions), aims to use the stations to gain immediate data when weather conditions require road restrictions to be placed on gravel roadways. Such restrictions are placed when weather conditions create a situation where moving large equipment on the roads would lead to expensive damage. In a Williston Herald newspaper article, a county official estimated the cost of repairing roads at \$1.5 million per mile so counties often place the restrictions out of an overabundance of caution. However, the oil industry believes that restrictions are often placed on more roads than necessary.

“Not only do the oil industry and counties benefit from the data of these stations,” said NDAWN Director Daryl Ritchison, “but the new stations ensure additional accurate weather information is available to anyone who wants the data, including meteorologists, researchers, farmers, and the general public. Given that NDAWN previously didn’t have complete coverage in the western part of the state, the new stations will really help give us a more complete view of weather conditions.”

NDAWN was established in 1989 and consisted of 6 automatic weather stations located at North Dakota State University (NDSU) Branch Research Centers. NDAWN now consists of 128 stations North Dakota and the border regions of surrounding states. Each station records various weather readings throughout the day including wind speed, air temperature, and rainfall and some stations have a remote camera that allows visual inspection of nearby roads and weather conditions. Given they are part of a network, an individual station can fill in any gaps of a nearby station’s data. NDAWN is operated by Ritchison along with Research Specialists Barb Mullins and James Hyde from the NDSU AES School of Natural Resource Sciences and computer programmer Dallas Morlock.

The North Dakota Agricultural Weather Network is available at <https://ndawn.ndsu.nodak.edu/>.

Each station costs approximately \$10,000 and is commonly located on private land. The Wise Roads project stations are placed on oil land in Williams, Dunn, Montrail, and McKenzie counties. Plans are in place to add 25 additional stations. Since its inception in 1989, all NDAWN equipment has been funded through gifts and grants from various federal and state government agencies, commodity organizations, agricultural clubs, businesses, and individuals.

“This project is a great win-win for everyone,” added Ritchison. “The public

gets value from the improved data NDAWN generates and the counties have additional tools to help them decide when travel on roads needs to be restricted.”

## Updated IACUC Guiding Principle

The NDSU Institutional Animal Care and Use Committee (IACUC) has updated the [IACUC Review of Proposed and Continuing Animal Use](#) Guiding Principle. Please note: investigators will have 60 days after receipt of written request to address required modifications to their protocols and/or change requests. After 60 days, the protocol or change request will be withdrawn from the review process. If you have any questions regarding the IACUC review process, please contact Josie Hayden [ 231-8114 / [josie.hayden@ndsu.edu](mailto:josie.hayden@ndsu.edu) ].

## Disclosing Research Support to NIH and NSF

The National Institutes of Health (NIH) and the National Science Foundation (NSF) recently issued guidance related to disclosing other research support / current and pending support.

**NIH:** When applying for and receiving NIH grants, institutions and investigators must disclose all forms of what is termed “other support.” Other support, as described in the [NIH Grants Policy Statement \(GPS\)Section 2.5.1](#), includes all resources, regardless of whether or not they have monetary value, available in direct support of an individual's research endeavors. This includes reporting other NIH grants, grants or

contracts from another federal agency, grants or contracts that go through another institution (domestic or foreign), commercial funds, in-kind lab space or office space, scientific materials (even if it has no monetary value), and affiliations with foreign entities or governments.

For more information, read "[Clarifying Long-Standing NIH Policies on Disclosing Other Support](#)."

**NSF:** Since 1978, NSF has required senior project personnel on proposals to disclose all sources of support, both foreign and domestic. A renewed effort is now underway to ensure that existing requirements to disclose current and pending support information are known, understood, and followed. To this end, the [draft NSF Proposal and Award Policies and Procedures Guide](#) (PAPPG) includes clarifications regarding reporting requirements for both current and pending support and professional appointments. Information must be provided for all current and pending support irrespective of whether such support is provided through the proposing organization or directly to the individual, including from non-profit organizations and through consulting agreements. All projects and activities that require a time commitment must be reported, even if the support received is only in-kind. Once final, the revised PAPPG is scheduled to take effect in January 2020.

For more information, read "[Dear Colleague Letter: Research Protection](#)."

## EXPORT CONTROLS FAQs

**Q:** What kinds of projects raise export control questions?

**A:** Any research activity may be subject to export controls if it involves the actual export or "deemed export" of any goods, technology, or related

technical data that is either "dual use" (commercial in nature with possible military application) or inherently military in nature.

Work in the following areas is considered high risk:

- Engineering
- Space sciences
- Computer Science
- Biomedical research with lasers
- Research with encrypted software
- Research with controlled chemicals, biological agents, and toxins

In addition, any of the following raise export control questions for your project:

- Sponsor restrictions on the participation of foreign nationals in the research
- Sponsor restrictions on the publication or disclosure of the research results
- Indications from the sponsor or others that export-controlled information or technology will be furnished for use in the research
- The physical export of controlled goods or technology is expected

If you have questions, please contact the NDSU Export Control Office at [ndsu.exportcontrols@ndsu.edu](mailto:ndsu.exportcontrols@ndsu.edu) for more information and assistance.

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Looking for  
Collaborators?  
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## 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.

- NEH Summer Stipends Program  
*Pre-Proposal Deadline: July 26, 2019*
- NSF Major Research Instrumentation (MRI)  
*Notification Deadline: September 5, 2019*
- NSF Research Traineeship (NRT)  
*Notification Deadline: September 9, 2019*
- NIH Collaborative Program for Multidisciplinary Teams (RM1)  
*Notification Deadline: September 9, 2019*

## DOI: BLM Montana / Dakotas Plant Conservation and Restoration Management

The Plant Conservation and Restoration Management Program was created in response to large-scale wildfires in the Western U.S. Because of a lack of native seed, in 2001 Congress directed the Bureau of Land Management (BLM) to establish a native plant material program and recommended that federal and non-federal partners coordinate efforts through the Plant Conservation Alliance established in 1994 (House Report 106-914). The Plant Conservation Program provides leadership in identifying, maintaining, and restoring Western native plant communities on public lands.

Program Strategic Goals:

- Restoring or improving wildlife habitat or reducing threats to habitat or species;
- Developing genetically appropriate native plant material for use in habitat restoration;
- Inventory and prioritization of plant populations;
- Implementing and assessing restoration efforts through monitoring;
- Collaborating with farmers and conservationists to increase BLM Stock and Foundation seed amounts to use on larger Seed Increase IDIQ contracts so that commercial availability of genetically diverse, locally sourced seed for restoration, rehabilitation and reclamation projects is increased at a larger and provenance specific scale;
- Initiating or refining Source Identified Seed Certification programs via partnerships with state seed certifying agencies;
- Inventorying, monitoring and restoring rare plant species and their associated communities to include development of conservation strategies/plans that include best management strategies and reporting on the condition and trend of rare plant species and their habitat;
- Increasing and improving pollinator habitat;
- Expanding public education programs and outreach; and
- Database creation, and management and analyses, including geospatial, collaborative web service or support and training.

*Round 1 applications are due by August 11, 2019, at 3:30PM CST*

*Round 2 applications are due by September 11, 2019, at 3:30PM CST*



## **NEH: Summer Stipends - Limited Submission Program**

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express



interest in applying than NDSU is allowed to submit to the grant program.

**NEH Summer Stipends: The internal NDSU deadline for pre-proposals is 4pm on July 26, 2019. [Contact Christina Weber](#) for the pre-proposal requirements.**

[NEH Summer Stipends](#) support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Eligible projects usually result in articles, monographs, books, digital materials and publications, archaeological site reports, translations, or editions. Projects must not result solely in the collection of data; instead they must also incorporate analysis and interpretation. Summer Stipends support continuous full-time work on a humanities project for a period of two consecutive months. Summer Stipends support projects at any stage of development. Up to two applicants may be nominated by their institution.

*Application deadline: September 25, 2019 (for projects beginning May 2020)*

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## **NIH Collaborative Program Grant for Multidisciplinary Teams (RM1) – 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 9/9/2019, 5:00 p.m. if you intend to apply.**

This National Institutes of Health (NIH) funding opportunity announcement (FOA / [PAR-17-340](#)) is designed to support highly integrated research teams of three to six PD/PIs to address ambitious and challenging research questions that are important for the mission of the [National Institute of General Medical Sciences \(NIGMS\)](#) 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.

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## **NSF Improving Undergraduate STEM Education: Education and Human Resources**

Proposals are being accepted through September 30, 2019, for the National Science Foundation (NSF) Improving Undergraduate STEM Education: Education and Human Resources (IUSE:EHR) Exploration and Design Tier projects. The program is a core NSF undergraduate STEM education program that seeks to improve the effectiveness of undergraduate STEM education for both majors and non-majors. Primary investment is in evidence-based and evidence generating approaches to understand and improve STEM learning and learning environments, improve the diversity of STEM students and majors, and prepare STEM majors for the workforce. In addition to contributing to STEM education in the host institution(s), proposals should have the promise of adding more broadly to understanding effective teaching and learning practices.

*Exploration and Design* projects may pose new interventions or strategies, and explore challenges to their adoption, with the goal of informing policy, practice, and future design or development of components in the STEM higher education enterprise. Exploration and Design projects should describe the proposers' current teaching approaches within the context of what is known about effective educational practices and how the implementation and evaluation of those practices has informed the proposed project. Results of Exploration and Design projects are expected to be significant enough to contribute to the body of knowledge about STEM teaching and learning and/or effective means to

broader implementation. These projects may request up to \$300,000 over a period of up to 3 years.

*Application Deadline: September 30, 2019*



## **NSF Major Research Instrumentation (MRI) – 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 MRI: Notify RCA by 9/5/2019, 5:00 p.m. if you intend to apply.**

The National Science Foundation Major Research Instrumentation (MRI) Program [[NSF 18-513](#)] serves to increase access to multi-user scientific and engineering instrumentation for research and research training in our Nation's institutions of higher education and not-for-profit scientific/engineering research organizations. An MRI award supports the acquisition or development of a multi-user research instrument that is, in general, too costly and/or not appropriate for support through other NSF programs. **Cost sharing of precisely 30% of the total project cost is required.**

An MRI proposal may request support for either the acquisition or development of a research instrument.

- Track 1: Track 1 MRI proposals are those that request funds from NSF greater than or equal to \$100,000 and less than \$1,000,000. Two proposal submissions are allowed per organization.

- Track 2: Track 2 MRI proposals are those that request funds from NSF greater than or equal to \$1,000,000 up to and including \$4,000,000. One proposal submission is allowed per organization.

**LIMITED SUBMISSION:** The MRI program requires that an MRI-eligible organization may, as a performing organization, submit or be included as a significantly funded subawardee in *no more than three MRI proposals*. Each performing organization is limited to a maximum of three proposals in the “Tracks” as defined above, with no more than two submissions in Track 1 and no more than one submission in Track 2.



## NSF Research Traineeship Program (NRT) – 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 NRT:** Notify RCA by 9/9/2019, 5:00 p.m. if you intend to apply.

The National Science Foundation (NSF) Research Traineeship (NRT) program [NSF 19-522] is designed to encourage the development and implementation of bold, new, and potentially transformative models for STEM graduate education training. The NRT program seeks proposals that explore ways for graduate students in research-based masters and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The program is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. The NRT program addresses workforce development, emphasizing broad participation, and

institutional capacity building needs in graduate education. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged.

**The NRT Program has announced the program's priority areas for FY2019 and FY2020.** For FY2019 and FY2020, the NRT Program requests *proposals in any interdisciplinary research theme of national priority*, with special emphasis on the six [NSF Research Big Ideas](#). The NSF Research Big Ideas are Harnessing the Data Revolution (HDR), The Future of Work at the Human-Technology Frontier (HTF), Navigating the New Arctic (NNA), Windows on the Universe: The Era of Multi-Messenger Astrophysics (WOU), The Quantum Leap: Leading the Next Quantum Revolution (QL), and Understanding the Rules of Life: Predicting Phenotype (ROL).

**LIMITED SUBMISSION:** An eligible organization may participate in *two proposals* per competition. **Participation includes serving as a lead organization, non-lead organization, or subawardee on any proposal.** Organizations participating solely as evaluators on projects are excluded from this limitation.

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## NSF Sociology Program

The National Science Foundation (NSF) [Sociology Program](#) supports basic research on all forms of human social organization -- societies, institutions, groups and demography -- and processes of individual and institutional change. The Program encourages theoretically focused empirical investigations aimed at improving the explanation of fundamental social processes. Included is research on organizations and organizational behavior, population dynamics, social movements, social groups, labor force participation, stratification and mobility, family, social networks, socialization, gender, race and the sociology of science and technology. The Program supports both original data collections

and secondary data analysis that use the full range of quantitative and qualitative methodological tools. Theoretically grounded projects that offer methodological innovations and improvements for data collection and analysis are also welcomed.

The Sociology Program also funds doctoral dissertation research to defray direct costs associated with conducting research, for example, dataset acquisition, additional statistical or methodological training, meeting with scholars associated with original datasets, and fieldwork away from the student's home campus. See the [Sociology Program Doctoral Dissertation Improvement Awards Solicitation](#) for more information on this opportunity.

*Application deadline: August 15, 2019 and January 15, 2020*



## **Webinar: Sony Research Award Program**

The University Industry Demonstration Partnership (UIDP) is hosting an informative webinar about the Sony Research Award Program on Monday, July 22 at 12:00pm. Participants will learn more about the awards program, submission guidelines and application deadlines. The presenter will be Mark Ortiz, manager of the Strategy & Planning Office for Sony Electronics' U.S. Research Center. He will present for 20 minutes on the program, and the remaining time will be open for questions from participants.

Webinar: Sony Research Award Program

Monday, July 22, 2019

12-12:45pm

[Learn more and register >>](#)



## **IES: FY2020 Research Funding Webinars**

The [Institute of Education Sciences](#) (IES) will be posting a series of on-demand webinars for those who are interested in Fiscal Year 2020 funding opportunities and learning more about IES. These pre-recorded webinars are hosted by the [National Center for Education Research](#) and the [National Center for Special Education Research](#) and you can access them on the [IES Webinar Series website](#).

Two on-demand webinars are now available:

- IES Basic Overview of Research Grants and Information for New Applicants to IES
- IES Grant Writing Workshop

Additional on-demand webinars will be available soon.

Visit the [IES Funding Opportunities website](#) for more information about these and other research programs.



## CoSearch NDSU - Registration Open

On **October 25th and 26th**, NDSU researchers will have 30 hours to share a research idea, hone the idea with an interdisciplinary team they meet at the event and pitch the idea to a panel of judges. CoSearch is open to all faculty members who are interested in collaboration and research, and it is an exciting opportunity for researchers from a variety of disciplines to bring their perspectives and work together to solve real-world problems.

For more information and to register, visit <http://cosearchndsu.com>.



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

[Contact Us](#)



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*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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