Dear NDSU Colleagues,

The Research and Creative Activity Office is excited to announce a new Faculty Fellow opportunity. We are seeking a tenured senior Associate Professor or Full Professor to create and implement research development initiatives for associate professors who have cleared the tenure mark and are ready for new opportunities and challenges that often come with that milestone. As we look to improve and expand services for research support, we view the Faculty Fellows as an integral part of this process. The Fellow will work closely with our fantastic Research Development staff, which is an added bonus! Full details are described in the online announcement.

The deadline to apply is August 23, 2019.

Kind regards,

Jane Schuh
Vice President
Research and Creative Activity
DoD and U.S. Senate Committee on Armed Services Representatives Visit NDSU

On August 9, NDSU welcomed Senate Armed Services Committee professional staff member Dr. Arun Seraphin and Antonio Banes and Kathryn Gosciewski from the U.S. Army Office of the Chief Legislative Liaison.

The group met with business owners, faculty researchers, and members of the North Dakota University System and toured NDSU research labs.

The Research and Creative Activity Office will be participating in a professional development staff retreat on Tuesday, August 13, 2019 from 9am-1pm. It will be business as usual before and after that time. Please plan accordingly.

NSF Reports
What is the difference between an Annual, Final, and Project Outcomes Report? They all apply to Continuing Grant, Cooperative Agreement and Standard award types, but address different levels of progress on the project.

**Annual Project Reports (APRs)** cover only the most recent budget period, and are not cumulative. Unless otherwise specified in the grant, APRs shall be submitted at least three months prior to the end of the current reporting period. In the case of continuing grants, failure to submit timely reports may delay processing of funding increments. APRs for each reporting period must be completed prior to submission of a Final Project Report. If an award receives a no-cost extension, an APR will be due at the time the extension is granted.

**Final Project Reports (FPRs)** are the last (final) annual report of the project, they cover the most recent budget period and are not cumulative. NSF awards require that the PI submit an FPR to the cognizant NSF Program Officer within 90 days after the expiration of the award.

**Project Outcomes Reports (PORs)** serve as a brief summary of the nature and outcomes of the project, prepared specifically for the public. Unless otherwise specified in the grant, PORs must be submitted electronically via Research.gov within 120 days of the expiration date of the grant. By submitting the report, the PI is indicating that the scope of work for the project has been completed and that he/she does not anticipate any further action on the grant, including no cost extensions, supplemental funding, or transfer of the grant.

Please check your award terms for reporting requirements. For most federal agencies, failure to provide reports on a timely basis will delay review and processing of pending proposals for NDSU.

Questions about NSF reports can be directed to Sponsored Programs Administration at nsu.research@ndsu.edu.
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Looking for Collaborators?
Visit the
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Check the
NDSU Equipment Database
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.

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  Notification Deadline: September 30, 2019

DOD DARPA: Polyplexus Pilot Topic Opportunity Notice

The Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) invites participation in **Polyplexus**, which is an online, professional, technical conversation between the research community and DARPA Program
Managers that will lead to the opportunity to submit abstracts and full proposals for a research and development project. The shared task of this group is to rigorously explore the trends and possible applications of emerging science and technology in a specific technical area defined by a participating Program Manager. The online discussion culminates in an opportunity to submit an abstract and subsequently a proposal describing a proposed research project. Abstracts and proposals submitted in response to the technical area description that emerges from the online interactions will be evaluated against the evaluation criteria in [HR001119S0075](#). The process, evaluation criteria, abstract submission instructions, and proposal submission instructions are described in the [BAA HR001119S0075](#), which is the companion document to this Polyplexus Pilot Topic Opportunity Notice.

Topics:
- **Cognitive Dissonance Detection**
- **Rethink Physics Modeling**
- **Hardware Trojan Identification**

*Cognitive Dissonance Detection Abstracts due: September 23, 2019*
*Rethink Physics Modeling Abstracts due: August 30, 2019*
*Hardware Trojan Identification Abstracts due: September 9, 2019*

**DOJ: Academic-based Training Initiative to Improve Police Responses**

The U.S. Department of Justice (DOJ), Office of Justice Programs (OJP) Bureau of Justice Assistance (BJA) is seeking applications for funding [An Academic-based Training Initiative to Improve Police Responses for People with Mental Illness and Intellectual and Developmental Disabilities](#). This initiative focuses on developing academic-based, transdisciplinary crisis intervention training to educate, train, and prepare law enforcement officers so that they are equipped to appropriately
interact with people who have mental illnesses and intellectual and development disabilities in the course of completing their job responsibilities. This training should be developed by an institution of higher education, in conjunction with health care professionals, to provide crisis intervention training that will focus on understanding mental and behavioral health, developing empathy, navigating community resources, and de-escalation skills and practical application training of those skills for all first responders. This grant program will serve as a pilot program, establishing best practices for law enforcement agencies.

Proposal deadline: October 4, 2019

Great Plains IDeA-CTR Pilot Project Program

The Great Plains IDeA-CTR Network is pleased to announce an opportunity for pilot funding through an NIH/NIHMS grant. Successful applicants will receive up to $50,000 in direct costs for a one-year project, as well as access to resources of the Great Plains IDeA-CTR to support their research efforts.

A 2-page Letter of Intent (LOI) is requested using the template provided in the RFA. The RFA can be downloaded from the Great Plains IDeA-CTR website. The LOI application process is outlined on page 3. Those invited to submit full proposals will be notified by September 27, 2019. Solicited applications will be due November 15, 2019. The requirements for invitees are also detailed in the RFA.

Please email your LOI and NIH biosketch as a single PDF document to the Great Plains IDeA-CTR Office at gpctr@unmc.edu. If you have any questions contact Heather Braddock or call 402.559.9870.

Letter of Intent deadline: September 13, 2019
Johnson & Johnson: Women in STEM²D Scholars 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.

STEM²D Scholars: Notify RCA by 8/30/2019, 5:00 p.m. if you intend to apply.

The Johnson & Johnson Scholars Program aims to fuel the development of female STEM²D leaders and feed the STEM²D talent pipeline by awarding and sponsoring women at critical points in their research careers, in each of the STEM²D disciplines:

1. Science
2. Technology
3. Engineering
4. Mathematics
5. Manufacturing
6. Design

The awards will fund one woman per discipline who has completed her advanced degree, who is working as an assistant professor and who is not yet tenured at an accredited university or design institution. The goal is to fuel the research passion of the awarded women and inspire career paths in their respective STEM²D fields. By offering these awards, Johnson & Johnson hopes to play an influential role in STEM²D breakthroughs in the future.

LIMITED SUBMISSION: Each University can support and recommend one applicant per each STEM²D discipline for a total of 6 applicant submissions (one for science, one for technology, one for engineering, etc.)

Application deadline: October 3, 2019; 2pm CST
NEA: Research Grants in the Arts

Research Grants in the Arts funds research that investigates the value and/or impact of the arts, either as individual components of the U.S. arts ecology or as they interact with each other and/or with other domains of American life. Regarding the types of studies to be undertaken, funds will be given for projects that involve analyses of primary and/or secondary data. Projects may include, but are not limited to, primary and/or secondary data analyses; economic impact studies; organizational research; psychological and physical health-related or therapeutic studies that take place in clinical or non-clinical settings; education studies in a variety of contexts (e.g., classrooms, informal venues, distance learning, or home-school environments); third-party evaluations of an arts program’s effectiveness and impact; and statistically-driven meta-analyses of existing research so as to provide a fresh understanding of the value and/or impact of the arts. The National Endowment for the Arts (NEA) is also interested in translational research that moves scientific evidence toward the development, testing, and standardization of new arts-related programs, practices, models, or tools that can be used easily by other practitioners and researchers.

There is a two-step process for application submission. By October 3, 2019, submit to Grants.gov. Between October 8, 2019 and October 15, 2019, submit to Applicant Portal.

NIH: Centers of Biomedical Research Excellence (P20) - 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 COBRE: [Notify RCA](#) by 9/30/2019, 5:00 p.m. if you intend to apply.

The National Institutes of Health Centers of Biomedical Research Excellence (COBRE) [PAR-19-313](#) are thematic, multidisciplinary centers that augment and strengthen institutional biomedical research capacity. This is accomplished by expanding and developing biomedical faculty research capability and enhancing research infrastructure, including the establishment of core facilities needed to carry out the objectives of a multidisciplinary, collaborative program. Only institutions in IDeA (EPSCoR) states are eligible to apply. An application in response to this funding opportunity announcement (FOA) must have a thematic scientific focus in a specific area in basic, clinical, or translational research including community engagement and outreach research as appropriate. **Applications addressing health challenges of rural populations in IDeA states are encouraged.**

The PD(s)/PI(s) must be an established biomedical or behavioral research scientist, who leads, as the principal investigator, at least one peer-reviewed research grant from NIH, NSF or other Federal or non-Federal sources that is closely related to the scientific theme of the proposed Center and has mentoring and administrative experience to lead the COBRE program to meet its goals.

*View a list of currently active COBRE centers>*

NDSU has had three previously funded COBRE centers, one each in the Departments of Chemistry, Psychology, and Pharmaceutical Sciences.

*Letter of Intent due: December 28, 2019 (30 days prior to deadline);*  
*Final application deadline: January 28, 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.

NSF/Intel Partnership on Machine Learning for Wireless Networking Systems

The National Science Foundation (NSF) has partnered with Intel on the Machine Learning for Wireless Networking Systems program (NSF 19-591). This program seeks to accelerate fundamental, broad-based research on wireless-specific machine learning (ML) techniques, towards a new wireless system and architecture design, which can dynamically access shared spectrum, efficiently operate with limited radio and network resources, and scale to address the diverse and stringent quality-of-service requirements of future wireless applications. In parallel, this program also targets research on reliable distributed ML by addressing the challenge of computation over wireless edge networks to enable
ML for wireless and future applications. Model-based approaches for designing the wireless network stack have proven quite efficient in delivering the networks in wide use today; research enabled by this program is expected to identify realistic problems that can be best solved by ML and to address fundamental questions about expected improvements from using ML over model-based methods.

Proposals may address one or more Research Vectors (RVs): ML for Wireless Networks; ML for Spectrum Management; and Distributed ML over Wireless Edge Networks. It is anticipated that 10 to 15 awards will be made, with an award size of $300,000-$1,500,000, for periods of up to 3 years.

Proposal deadline: October 29, 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.

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**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](mailto:Notify.RCA@ndsu.edu) 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](https://www.nsf.gov)) 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.

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