NDSU has been recognized by the National Security Agency and Department of Homeland Security as a National Center of Academic Excellence in Cyber Defense Research. The award was presented April 24 during the 2019 CAE Executive Leadership Forum in Pensacola, Florida.
The recognition will aid NDSU’s educational and research activities in the cybersecurity field. With more than 300,000 open jobs nationwide – or more than 30 percent of all available positions – cybersecurity graduates are in demand.

NDSU is leading the state’s efforts in cybersecurity through the NDSU Institute for Cyber Security Education and Research within the Computer Science Department.

Cybersecurity research activities at NDSU are extensive, ranging from answering questions of system trust and privacy, to algorithm development for intrusion detection, to solving cybersecurity challenges related to robotics and drones.

Through the award, NDSU gains access to resources available through the two federal agencies. There also will be increased opportunities for communications and collaboration with federal researchers, related to cybersecurity topics.

Learn more >>

Congratulations to all award recipients from March 2019!

View the complete list online: PDF | Excel

The awards listed are externally funded projects. Each month one of the RCA Updates will include prior month awards.

See Award Reports from previous months >>
Notification of Award

Award notices should always be sent to Sponsored Programs Administration. Sometimes a sponsor will send the award notice directly to the principal investigator (PI) or the Department. In order for an award to be fully processed through to Grant & Contract Accounting for setup, it must be forwarded to SPA. SPA will then review the award against the proposal details on file and work with the PI on any discrepancies. If you receive an award notice, you can send it electronically to ndsu.research@ndsu.edu or hard copies can be sent to SPA at Research 1. For more information, see SPA’s website on Award Acceptance.

Revised Human Subjects Regulations: Changes in Consent Waiver and Alteration Criteria

General Waivers or Alterations of informed consent (for example in the case of incomplete disclosure or deception) are approvable only when specific criteria are met.

The IRB may waive the requirement to obtain informed consent, or approve a consent procedure that omits some, or alters some or all, of the elements of consent provided that the following criteria are met:

1. The research involves no more than minimal risk to the subjects;
2. The research could not practicably be carried out without the requested waiver or alteration;
3. (NEW) If the research involves using identifiable private information or identifiable biospecimens, the research could not practicably be carried out without using such information or biospecimens in an identifiable format;
4. The waiver or alteration will not adversely affect the rights and welfare of the subjects; and
5. Whenever appropriate, the subjects or legally authorized representatives will be provided with additional pertinent information after participation.

For questions, please contact Kristy Shirley [kristy.shirley@ndsu.edu; 231-8995].
Q: I will be traveling and taking a piece of equipment with me. What do I need to do to prevent any delays or duty with Customs abroad or in the US upon my return?

A: There are a few options available depending on the particulars of the situation. For example, we may want to register the items with US Customs prior to departing the US and have them travel as ‘tools of the trade’; we may need to obtain a ‘carnet’ which acts as a passport for the equipment; duty may need to be paid.

Please contact the export control administrator [ndsu.exportcontrols@ndsu.edu / 231-6455] for assistance. You can also visit the NDSU export control website.
- ADA: Pathway to Stop Diabetes
- American Wind Wildlife Institute
- DOD: Multidisciplinary Research Program of the University Research Initiative
- DOJ: Student Computer Forensics and Digital Evidence Education
- Navy & Marine Corps: Science & Technology
- Navy & Marine Corps: STEM Education and Workforce Program
- NSF: Research Experiences for Teachers in Engineering and Computer Science
- NSF: Computer Research Initiation Initiative
- NSF: Planning Grants for Engineering Research Centers
- Wenner-Gren Foundation: Anthropological Conferences and Workshops Grants
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.

**ADA-Pathway: Notify RCA by 5/14/2019, 4:00 p.m. if you intend to apply.**

The American Diabetes Association’s (ADA) prestigious Pathway awards are available by institutional nomination only. The **Pathway to Stop Diabetes** initiative is designed to radically transform diabetes research. The awards provide recipients with freedom, autonomy, and the financial and professional resources to set them on the road to breakthrough discoveries. This initiative enables scientists to advance not only their research, but also their careers. Pathway scientists have access to the Mentor Advisory Group, an annual Pathway symposia, select speaking opportunities, and innovative technologies, all designed to foster interactions and collaboration that will enable them to accelerate their research progress. **Nominations are solicited** for candidates in all disciplines as applied to diabetes including medicine, biology, chemistry, computing, physics, mathematics and engineering. In addition, nomination of scientists from diverse backgrounds, including minority groups that are underrepresented in biomedical research, is strongly encouraged.

*Full proposals due July 1, 2019 (for January 1, 2020 funding)*
American Wind Wildlife Institute: Research

The American Wind Wildlife Institute is dedicated to supporting research that improves the understanding of wind-wildlife interactions and those that develop and produce proven science-based solutions that will result in or support approaches aimed at avoiding, minimizing, or offsetting these impacts. In support of this mission, the Institute is currently accepting proposals for research projects of high scientific caliber with the potential to improve, in a timely manner, risk and impact assessment, siting and operational decisions, and compensatory mitigation efforts for species of concern as defined in the USFWS Land-Based Wind Energy Guidelines (e.g., bats, eagles, and grouse).

Research projects of interest include those focused on:

- enhancing the ability to predict and avoid risk to species;
- improving methods for estimating impacts on species of concern and protocols for collecting and analyzing data that predicts risk and estimates impacts on species of concern;
- increasing our ability to minimize those impacts, including more effective approaches to smart curtailment and deterrence, and scientifically-based buffers for sensitive species; and
- developing verifiable compensatory mitigation options.

The fund will consider projects up to three years in length.

Application deadline: May 20, 2019
DOD: FY2020 Multidisciplinary Research Program of the University Research Initiative

Multidisciplinary University Research Initiative (MURI) [N00014-19-S-F005 / Download PDF] efforts involve teams of researchers investigating high priority topics and opportunities that intersect more than one traditional technical discipline. For many military problems this multidisciplinary approach serves to stimulate innovations, accelerate research progress and expedite transition of results into naval applications. MURI awards are made in research topics specified by the participating defense agencies each year that the program is in force. Specified topics change each year. Awards are typically for a period of three years (funded incrementally or as options) with two additional years possible as options to bring the total award to five-years, and at a funding level ranging from half a million to about a million dollars per year, with the size of the award dependent upon the topic, technical goals, and availability of appropriations. The research topics described in the MURI announcement generally underpin dual use defense technologies that are critical to national defense and that also have good potential for commercial application. Proposals are evaluated competitively.

White Paper Inquiries & Questions deadline: May 24, 2019
White Paper submission deadline: June 3, 2019
Application Inquiries & Questions deadline: August 30, 2019
Full proposal deadline: September 13, 2019

DOJ: Student Computer Forensics and Digital Evidence Educational Opportunities

The U.S. Department of Justice (DOJ) Bureau of Justice Assistance (BJA) is seeking partners in institutions of higher education to apply for funding under the Student Computer Forensics and Digital Evidence Educational Opportunities Program [BJA-2019-16290] to enhance both the education and opportunities for students in the areas of computer forensics and digital evidence. Applicants must
possess experience in providing computer forensic and digital evidence education to students both at the undergraduate and graduate levels as it would relate to economic, high-technology, white collar, or internet crimes. Because this solicitation focuses on the education of students, the resources associated with the proposed programs cannot be used to fund new programs but must be used to fund existing programs in state, local, territorial, or tribal jurisdictions. This is an innovative new program to better prepare students for employment within federal, state, local, territorial, and tribal law enforcement agencies that are charged with the prevention, investigation, and response to economic, cyber, and high-tech crimes. OJP strongly emphasizes the use of data and evidence in policymaking and program development in criminal justice, juvenile justice, and crime victim services. For additional information and resources on evidence-based programs or practices, see the OJP Grant Application Resource Guide.

*Application deadline: June 25, 2019*

---

**Navy and Marine Corps Science and Technology**

The Office of Naval Research (ONR), ONR Global (ONRG), and the Marine Corps Warfighting Lab (MCWL) are interested in receiving proposals for Long-Range Science and Technology (S&T) Projects [N00014-19-S-B001 / Download PDF] which offer potential for advancement and improvement of Navy and Marine Corps operations. Research areas that ONR is pursuing are listed on the [ONR website](#); click on the research area of interest for a brief description. Potential applicants are urged to check the website throughout the year for updates to research areas. Prior to preparing proposals, potential applicants are strongly encouraged to contact the ONR point of contact (POC) identified for each research area. The POC for each research area will be listed at the bottom of each research area page.

*Applications accepted until: September 30, 2019*
Navy and Marine Corps STEM Education and Workforce Program

The Office of Naval Research (ONR) seeks a broad range of applications for augmenting existing or developing innovative solutions that directly maintain or cultivate a diverse, world-class STEM workforce in order to maintain the U.S. Navy and Marine Corps’ technological superiority. This announcement [N00014-19-S-F003 / Download PDF] explicitly encourages projects that improve the capacity of education systems and communities to create impactful STEM educational experiences for students and workers. Submissions are encouraged to consider including active learning approaches and incorporating 21st century skill development. Projects must aim to increase student and worker engagement in STEM and enhance people with needed Naval STEM capabilities. ONR encourages applications to utilize current STEM educational research for informing project design and advancing our understanding of how and why people choose STEM careers and opportunities of naval relevance. Project scope may range in size and complexity. While this announcement is relevant for any stage of the STEM educational system, funding efforts will be targeted primarily toward projects addressing the below communities or any combination of these communities:

- Secondary education communities;
- Post-Secondary communities;
- Informal science communities;
- Current naval STEM workforce communities.

*White Paper Inquiries & Questions deadline: June 17, 2019;*  
*White Paper deadline: June 28, 2019;*  
*Application Inquiries & Questions deadline: September 16, 2019;*  
*Application deadline: September 27, 2019*
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 RET: Notify RCA by 6/3/2019, 4:00 p.m. if you intend to apply.

The National Science Foundation (NSF) Research Experiences for Teachers (RET) in Engineering and Computer Science program supports active long-term collaborative partnerships between K-12 Science, Technology, Engineering, Computer and Information Science, and Mathematics (STEM) in-service and pre-service teachers, full-time community college faculty, and university faculty and students to enhance the scientific disciplinary knowledge and capacity of the STEM teachers and/or community college faculty through participation in authentic summer research experiences with engineering and computer science faculty researchers. The research projects and experiences all revolve around a focused research area related to engineering and/or computer science that will provide a common cohort experience to the participating educators. The K-12 STEM teachers and/or full-time community college faculty also translate their research experiences and new scientific knowledge into their classroom activities and curricula.

This announcement features two mechanisms for support of in-service and pre-service K-12 STEM teachers and full-time community college faculty:

1. **RET supplements:** RET supplements may be included outside this solicitation in proposals for new or renewed ENG and CISE grants or as supplements to ongoing ENG- and CISE-funded projects.

2. **RET Site awards:** New RET in Engineering and Computer Science Sites, through this solicitation, are based on independent proposals from engineering and/or computer and/or information science departments,
schools or colleges to initiate and conduct research participation projects for K-12 STEM teachers and/or full-time community college faculty.

RET Sites proposal deadline: September 18, 2019

**NSF: Computer Research Initiation Initiative (CRII)**

This solicitation [NSF 19-579](#) encourages potentially transformative proposals in any area of Computer and Information Science and Engineering (CISE) research from PIs who are in their first academic position post-PhD. The goal is for the PI to have the necessary resources to launch their research career so that they may establish an independent research profile. The resources should be those that the PI otherwise does not have, including through organizational or other funding. The CRII program is part of CISE's strategy to increase its investments in the development and growth of the research capabilities of future generations of computer and information scientists and engineers, including computational and data scientists and engineers. This solicitation provides the opportunity for early-career researchers who do not have adequate organizational or other means of support to pursue their early-career research, including to recruit and mentor their first graduate students (or undergraduate students, in the case of faculty at undergraduate and two-year institutions), which is one critical step in a career pathway that is expected to lead to research independence and a subsequent stream of projects, discoveries, students and publications. CRII awards will be given to researchers to undertake exploratory investigations, to acquire and test preliminary data, develop collaborations within or across research disciplines, and/or develop new algorithms, approaches, and system designs/prototypes, which together or separately may lead to improved capacity to write successful proposals submitted to other programs in the future.

Application deadline: August 14, 2019
NSF: Planning Grants for Engineering Research Centers (ERC)

The Planning Grants for Engineering Research Centers (ERC) solicitation [NSF 19-562] is a mechanism for increasing capacity across the engineering academic community to develop ideas, facilitate team formation, and foster stakeholder community networks. As a result of planning grant activities, potential ERC teams should be better equipped to carry out center-scale convergent engineering research with large societal impact. The ERC program is placing greater emphasis on research that leads to societal impact, including convergent approaches, engaging stakeholder communities, and strengthening team formation. The ERC program intends to support planning activities leading to convergent research team formation and capacity-building within the engineering community. Planning grants should not exceed $100,000 and are for one year. The anticipated start date of the planning grants is September 1, 2019. Participation in the planning grants program should not be construed as a proposal for the next ERC competition, and the information presented in a submitted planning grant will not limit in any way a future ERC proposal submission. Visit the FAQs webpage for more information.

Application deadline: June 3, 2019

Wenner-Gren Foundation: Anthropological Conferences and Workshops Grants

The New York City-based Wenner-Gren Foundation for Anthropological Research is dedicated to all branches of anthropology and closely related disciplines concerned with human biological and cultural origins, development, and variation. The Foundation is currently accepting applications for its Conference and Workshop Grants program, through which grants of up to $20,000 will be awarded in support of events that foster the creation of an international community of research scholars in anthropology and that advance significant and innovative anthropological research. As defined by the foundation, a conference is a public
event comprised primarily of oral and poster presentations to a larger audience of anthropologists. Priority will be given by the foundation to major conferences sponsored by large international anthropological organizations (e.g., the European Association of Social Anthropologists, European Anthropolical Association, Pan African Anthropological Association, and Latin American Anthropological Association) that serve as their annual or periodic meeting. The majority of the funds awarded for conferences is expected to be applied to expenses for international scholars who are making presentations at the conference and would not otherwise be able to attend. A workshop is defined as a working meeting in which topical issues in theoretical anthropology are developed and debated by small groups of scholars who meet for a sufficient period of time to deal intensively with the topic. Priority is given to workshops that devote the majority of time to discussion and debate rather than to the presentation of papers. It is expected that workshops will result in a publication. To be eligible, applicants must be a professional anthropologist acting as the primary organizer of the proposed conference or workshop.

*Application deadline: June 1, 2019*
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.

North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to: Equal Opportunity Specialist, Old Main 201, 701-231-7708 or Title IX/ADA Coordinator, Old Main 102, 701-231-6409.