

October 1, 2018



Women in Research (WIR) at NDSU

Ying Huang, NDSU associate professor of civil and environmental engineering, recently presented “Smart Concrete Pavement System for Integrated Performance and Traffic Monitoring” at the September Women in Research (WIR) at NDSU meeting. Her research details a smart concrete pavement system for integrated road conditions and traffic monitoring using in-pavement strain-based sensors. The system is expected to simultaneously assess and measure the pavement’s structural condition, the road’s ride quality, and the weighing and classification of vehicles passing at high speeds. Huang’s research background includes steel corrosion protection and mitigation, smart cities and autonomous systems, smart materials and structural health monitoring, intelligent transportation systems, pavement and traffic

monitoring, railroad damage and defect assessment, big data for civil engineering applications, and emergency evacuation for multi-hazards. Huang received her Ph.D. in 2012 from Missouri University of Science and Technology and she has obtained over \$2 million in research grants from agencies including the NSF, U.S. DOT, and NASA. She is NDSU's most recent recipient of an NSF CAREER Award.

WIR is an NDSU organization that provides a platform for all NDSU female researchers to exchange their research, grant-writing, teaching, and other professional experiences. The group meets regularly to share research, perspectives, and skills that are particularly beneficial for the female scholar community at NDSU. For more information, contact one of the faculty co-chairs: Maria Alfonseca-Cubero (maria.alfonseca@ndsu.edu), Sarah Kirkpatrick (sarah.kirkpatrick@ndsu.edu), or Danling Wang (danling.wang@ndsu.edu).



Congratulations to all award recipients from August!

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.



Many of you have a [Pivot](#) Funding Alert from cos.com waiting in your email inbox on Monday mornings. Even if you have never done a customized funding search in Pivot, it sets a default funding alert for you and sends you grant opportunity notices based on what it knows about you – perhaps *ONLY* the name of your department! So it's not surprising if you find that these 'default' funding alerts are not very useful. However, these "not so useful" alerts should motivate you to log into Pivot and do a **customized** funding search that is focused on your own specific research or scholarly interests, so that future emails WILL contain useful information about potential funding for your research, your instrumentation needs, your graduate students' funding, travel plans, and other scholarly purposes. **Allow Pivot to do your future grant seeking for you.** Pivot will watch for grants in your field and send you email alerts as it finds new opportunities. For more information on setting up funding alerts, watch this [short video](#) or visit [this website](#).



The NDSU [Institutional Animal Care and Use Committee \(IACUC\)](#) oversees the care and use of all live vertebrate animals at NDSU. The IACUC consists of 13 members which include veterinarians, scientists, non-scientists, community members and graduate students. The IACUC is required to inspect all animal facilities on a semi-annual basis. NDSU has 17 animal facilities which include research extension centers across North Dakota.

NDSU maintains an [Animal Welfare Assurance](#) with the NIH Office of Laboratory Welfare and a Registration with the [USDA Animal and Plant Health Inspection Service](#).

If you have questions regarding the NDSU animal care program or would like more information, please contact Josie Hayden (IACUC Administrator) at 231-8114 or Dr. Neil Dyer (Attending Veterinarian) at 231-7830.

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Damon Runyon Cancer Research Foundation: Fellowships

The Damon Runyon Cancer Research Foundation seeks to accelerate breakthroughs in research by providing the best young scientists with funds to pursue innovative cancer research. To that end, the [Damon Runyon Fellowship Award](#) is designed to provide early-career scientists with resources they need to hone their cancer research skills and explore their own ideas while working with mentors in top universities and cancer research centers. Candidates must apply for the fellowship under the guidance of a sponsor — a scientist (tenured, tenure-track, or equivalent position) capable of providing mentorship to the fellow. Awards are made to institutions for the support of the fellow under direct supervision of the sponsor. The foundation encourages all theoretical and experimental research relevant to the study of cancer and the search for cancer causes, mechanisms, therapies, and prevention. The proposed research must be conducted at a university, hospital, or research institution. Candidates who already have accepted a postdoctoral research fellowship award are not eligible. Candidates applying to work in foreign-based or United States government laboratories may be awarded a fellowship if they are considered to

be especially meritorious or if the program represents an unusual opportunity for postdoctoral training. Foreign candidates may apply to do their research only in the U.S. The award provides a stipend of \$231,000 over four years. The award may not be used for institutional overhead or indirect costs. Fellows also receive an annual \$2,000 expense allowance for educational and scientific expenses. Applicants must have completed one or more of the following degrees or its equivalent: MD, PhD, MD/PhD, DDS, and/or DVM.

Application deadline: March 15, 2019



NEH: Digital Humanities Advancement Grants

The National Endowment for the Humanities funds [Digital Humanities Advancement Grants](#) for support of digital projects throughout their lifecycles, from early start-up phases through implementation and long-term sustainability. Experimentation, reuse, and extensibility are hallmarks of this program, leading to innovative work that can scale to enhance scholarly research, teaching, and public programming in the humanities. Proposals are welcome for digital initiatives in any area of the humanities. Through a special partnership with NEH, the Institute of Museum and Library Services (IMLS) anticipates providing additional funding to this program to encourage innovative collaborations between museum or library professionals and humanities professionals to advance preservation of, access to, use of, and engagement with digital collections and services. IMLS and NEH may jointly fund some DHAG projects that involve collaborations with museums and/or libraries. Digital Humanities Advancement Grants may involve

- creating or enhancing experimental, computationally-based methods, techniques, or infrastructure that contribute to the humanities;
- pursuing scholarship that examines the history, criticism, and philosophy of digital culture and its impact on society, or explores the philosophical

- or practical implications and impact of digital humanities in specific fields or disciplines; or
- revitalizing and/or recovering existing digital projects that promise to contribute substantively to scholarship, teaching, or public knowledge of the humanities.

Application deadline: January 15, 2019.

This program is offered twice per year. A June 2019 deadline is anticipated for the second application window.



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 10/22/2018, 5:00 p.m. if you intend to apply.

The National Institutes of Health (NIH) funds Centers of Biomedical Research Excellence program (COBRE / PAR-18-266) supports 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. These centers are led by *NIH-funded investigators* with expertise central to the theme of the grant proposal. The

centers promote collaborative, interactive efforts among researchers with complementary backgrounds, skills and expertise. In some instances, COBRE support facilitates the development of new, disease-specific research centers or augments the capability of existing centers. Researchers supported through COBRE are expected to compete independently for external peer-reviewed grant support.

Each COBRE center includes:

- A principal investigator who is an established biomedical research scientist with expertise central to the research theme of the center, has an active research laboratory, has relevant peer-reviewed funding and has demonstrated administrative leadership and mentoring experience.
- Three to five individual research projects—each supervised by a single junior investigator—that stand alone but share a common thematic scientific focus.
- At least one mentor for each junior investigator, and a development and mentoring plan addressing how the junior investigators will transition to competitive grant support from NIH institutes and centers or other Federal or non-Federal agencies or organizations.

A list of currently active COBRE centers is available [here](#) (PDF). NDSU has had three previously funded COBRE centers, one each in the Departments of Chemistry, Psychology, and Pharmaceutical Sciences.

Letter of Intent deadline: December 25, 2018 (30 days prior to deadline); Final application deadline: January 24, 2019.



NLN: Nursing Education Projects

The [National League for Nursing](#) (NLN) is inviting applications for its [NLN Nursing Education Research grants program](#). The annual program is designed

to support high-quality studies that contribute to the development of the science of nursing education, promote diversity of research topics, and investigators who demonstrate rigor and innovative approaches to advance the field of nursing education research. Grants of up to \$30,000 will be awarded to support projects focused on building links between practice and education, developing more rigorous and robust research designs and evaluation protocols, and creating leadership opportunities for faculty and nursing education research scholars. To be eligible, principal investigators must be current NLN members, either through their school or through individual dues payment. All studies must relate to one or more of the [NLN Priorities for Research in Nursing Education](#). One cross-cutting theme for the [2016-2019 priorities](#) calls for partnerships as key strategic approaches to leverage resources and build nursing education research capacity through intra/inter-professional and collaborative practice that improves patient-centered outcomes for the benefit of all participants.

Application deadline: February 4, 2019



Open Society Foundation: Soros Justice Fellowships

The [Open Society Foundations](#) (OSF) is accepting applications for its [Soros Justice Fellowships](#). Through this program, grants of up to \$120,000 will be awarded to outstanding individuals to undertake projects that advance reform, spur debate, and catalyze change on a range of issues facing the U.S. criminal justice system. The fellowships are part of a larger effort within OSF to reduce the destructive impact of current criminal justice policies on the lives of individuals, families, and communities in the United States by challenging the over-reliance on incarceration and extreme punishment and ensuring a fair and accountable system of justice.

New fellows will receive funding through one of three categories:

1. Advocacy Fellowships,

2. Media Fellowships, and
3. Youth Activist Fellowships.

All projects must, at a minimum, relate to one or more of the following U.S. criminal justice reform goals:

1. reducing the number of people who are incarcerated or under correctional control,
2. challenging extreme punishment, and
3. promoting fairness and accountability in our systems of justice.

Applications are strongly encouraged from individuals directly affected by, or with significant direct personal experience with, the policies, practices, and systems their projects seek to address (e.g., applicants who have themselves been incarcerated, applicants who have a family member or loved one who has been incarcerated and whose fellowship project emerges from that experience, or applicants who are survivors of violence or crime).

Application deadline: October 22, 2018



SBARE: Agricultural Research Proposals

The ND State Board of Agricultural Research and Education (SBARE) is calling for research proposals for fiscal year 2018-2019. Funding for the research comes through the Agricultural Research Fund (ARF). The ARF is funded from an imposed tax upon the gross receipts of retailers from all retail sales of farm machinery or irrigation equipment, including leasing and renting, used exclusively for agricultural purposes and state general fund appropriations. For the current fiscal year, a total of \$618,041 is available for grants. This amount is distributed among eleven commodity-based granting committees based on percentages of cash receipts from farm marketings from the previous fiscal

year. SBARE appointed committees will select projects based on importance of the addressed problem to producers in the state of North Dakota, the impact of the proposed outcome, the generation of new information, and feasibility. Guidelines, policies and application forms can be found at www.ag.ndsu.nodak.edu/sbare. Applications are limited to five pages of narrative plus supplements and attachments.

Application guidelines and deadlines vary depending on commodity, as follows:

- **Soybean:** Proposals due October 12, 2018. Amount available: \$141,902. *Matching funds required.* Submit 1 copy of the application.
- **Wheat:** Proposals due October 19, 2018. Amount available: \$100,369. *Matching funds required.* Submit 16 copies of the application.
- **Animal Agriculture:** Proposals due October 26, 2018. Amount available: \$111,247. No matching funds required. Submit 10 copies of the application.
- **Barley:** Proposals due November 1, 2018. Amount available \$10,384. *Matching funds required.* Submit 1 copy of the application.
- **New & Emerging Crops:** Proposals due November 2, 2018. Amount available: \$74,165. No matching funds required. Submit 9 copies of the application.
- **Corn:** Proposals due November 16, 2018. Amount available: \$88,688. *Matching funds required.* Submit 10 copies of the application.
- **Sunflower:** Calls for proposals will be issued in conjunction with the National Sunflower Council's call for proposals. (Pre-proposals due October 9, 2018.) Amount available: \$11,681.
- **Sugarbeet:** Proposals due December 14, 2018. Amount available: \$16,872. *Matching funds required.* Submit 1 copy of the application.
- **Canola:** Proposals due January 31, 2019. Amount available: \$30,284. *Matching funds required.* Submit 9 copies of the application.

- **Potato:** Proposals due February 8, 2019. Amount available: \$13,845. *Matching funds required.* Submit 3 copies of the application.
- **Dry bean:** Proposals due February 20, 2019. Amount available: \$18,604. *Matching funds required.* Submit 10 copies of the application.



CCAST Achieves New Records

CCAST, the NDSU high performance computing center, recently achieved center records for the number of active users and the CPU hours.

The CCAST team has implemented new training sessions to introduce the basics of advanced research computing to faculty, research staff, and students. These trainings have been attended by 24 students per session and have contributed to the record high 95 active users who utilize CCAST. The CCAST group has also conducted personalized training for individual researchers and research groups.

Heavy utilization of the HPC facilities for the month of September resulted in an all-time high of CPU hours for both for the month and quarter.

For more information, visit the [CCAST website](#).



NCURA Region IV Traveling Workshop: Grand Forks

A one-day workshop providing concepts, strategies, and best practices for pre-award and post-award management of sponsored research is being hosted by

the University of North Dakota (UND), on October 19, 2018, from 8:00 a.m.-5:00 p.m. Experienced National Council of University Research Administrators (NCURA) speakers will provide the instruction on “Sponsored Programs Essentials,” which will be an introduction to the lifecycle of sponsored research administration. Research administrators from central and departmental offices will benefit from the workshop. Early-bird registration is \$175, and includes lunch. The office of the Vice President of Research and Creative Activity (RCA) will provide a limited number of partial “scholarships” for interested NDSU staff to attend. The RCA office will cover \$100 of the registration cost, and provide pooled transportation. The partial scholarships are available on a first-come basis. If you are interested in attending this conference, please contact Val Kettner by October 10, 2018: val.kettner@ndsu.edu or 231-9608.



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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