NDSU to Conduct Computational Social Science Institute this Summer

NDSU will host a Summer Institutes in Computational Social Science (SICSS) event from June 19 – June 30, 2022. NDSU assistant professor of communication Shuning Lu will lead the two-week program in collaboration with NDSU associate professor of communication Zoltan Majdik. NDSU is one of only seven universities in the United States (along with Duke University, University of Pennsylvania, Rutgers University, University of Rochester, Georgia State University, and Howard University) to hold the summer workshop in 2022.

The Institute will cover a wide variety of topics, including text as data, web-scraping, digital field experiments, machine learning, and ethics. Utilizing in-person and self-paced online lectures, group problem sets, and participant-led research projects and featuring speakers who conduct computational social science research in a variety of disciplines, the Institute aims to train young researchers about how social science and data science intersect.

Lu and Majdik plan on inviting approximately 20 participants. Attendees must be graduate students, postdoctoral researchers, or early-career faculty from any background or field of study. Industry
If you are interested in applying to participate in the Computational Social Science Institute, the deadline is April 10. For more information and to apply, see [https://sicss.io/2022/ndsu/apply](https://sicss.io/2022/ndsu/apply).

### Lunch and Learn with a Program Officer

**April 1, 2022 | 12-1pm**

On April 1, our weekly online conversation with a program officer will feature Jesse Johnston, PhD, a former senior program officer for preservation and access at the National Endowment for the Humanities. Jesse has advised hundreds of projects in higher education, libraries, archives, and community-focused cultural heritage organizations.

Jesse also led NEH's major initiative to support community archiving activities (from 2015 to 2017) and coordinated programs that supported training in preservation and conservation for humanities collections. He has served in a variety of roles in the federal cultural sector, including at the Library of Congress and the Smithsonian's Rinzler Folklife Archives and Collections. Jesse holds a PhD in musicology and a Masters of Science in Information, and he has served as an adjunct faculty member at the University of Maryland and George Mason University.

Join the discussion with Jesse on April 1 from noon to 1:00pm CT.

**On Fridays, a link to that day's session will be posted here:**
[https://www.ndsu.edu/research/rca_events/](https://www.ndsu.edu/research/rca_events/)
Open House for Jolynne Tschetter

April 25, 2022  |  2-4pm  |  Research 1 Building, Room 148

Jolynne Tschetter, PhD, will be leaving the Office of Research and Creative Activity, effective April 26, 2022.

As executive director of Industry Engagement and Intellectual Property (IE/IP) and the Research Foundation, Jolynne has led two complex units in coordination with her team of four staff members. In the last fiscal year, NDSU executed 117 industry agreements and the NDSU Research Foundation executed 56 total agreements, with protections filed for the KoolKat™ Katsura Tree trademark (pending), four plant variety protection applications, and 19 patent applications (ranging from divisional, continuation and provisional applications) in areas wide-ranging from solar energy to cancer identification to coatings and anti-fouling materials. Under her leadership, NDSU expanded acceptable intellectual property language in industry-sponsored agreements to include non-exclusive royalty-free or pre-negotiated fixed royalty terms.

Jolynne has served as RCA’s lead on our collaborations with Information Technology on an assessment of NDSU’s Cybersecurity Maturity Model Certification and with the Faculty Senate in discussions of research security.

Her contributions over the past seven years have been wide-ranging and resulted in improvements to processes in several areas, including technology transfer and export controls. Thank you, Jolynne, for all your dedication and service and best wishes on your next move!

The Office of Research and Creative Activity will be hosting an open house in honor of Jolynne in recognition of her service and contributions to NDSU on April 25 at Research 1 in room 148/154 from 2-4pm.
March Issue: Research Development & Grant Writing News

The March issue of *Research Development and Grant Writing News* is now available to view. Use your NDSU login information to access this resource. Various topics are covered, including:

- Advice for Applicants to Social Science Research Council (or, Really, Any) Competitions
- Pathway from An NSF EAGER to Understanding the "Strengthening American Infrastructure" Solicitation
- An Overview of Early Career and Research Initiation Grants for STEM Faculty
- DOE's Plan to Strengthen Clean Energy Supply Chains and Bolster Domestic Manufacturing

Upcoming Events and Deadlines

- **Strategies for Antiracist Action in STEM Labs**
  April 6, 2022 / [Learn more >>](#)
- **Student Research Day**
  April 19, 2022 / [Learn more >>](#)
- **Workshop: University-Industry Partnerships in the Social Sciences**
  April 20-21, 2022 / [Learn more >>](#)
- **AlCoRN Summit & DaCCoTA Symposium**
  August 4-5, 2022 / [Learn more >>](#)
Congratulations to all award recipients from January!

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 >>

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**FUNDING OPPORTUNITIES**

- DoD: Extramural Medical Research
- DOE: Urban Integrated Field Laboratories – LIMITED
- NEA: Grants for Arts Projects – LIMITED
- NIH: Cancer Informatics Technologies
- NIJ: Research on Juvenile Justice Topics
- NSF: Human Networks and Data Science
- NSF: Partnerships for Innovation – LIMITED
- NSF: Research Experiences for Undergraduates
- Prevent Cancer Foundation – LIMITED
- USDA: AFRI Education and Workforce Development

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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. Email notifications of interest to [ndsu.researchdev@ndsu.edu](mailto:ndsu.researchdev@ndsu.edu).

If you identify a limited submission opportunity that is not on the list below, please notify [ndsu.researchdev@ndsu.edu](mailto:ndsu.researchdev@ndsu.edu).
- **DOE: Urban Integrated Field Laboratories**  
  *First to Notify*
- **DOE: AI Research for High Energy Physics**  
  *First to Notify*
- **Prevent Cancer Foundation**  
  *First to Notify*
- **WTGrant Scholars: Improving the Lives of Youth in the U.S.**  
  *Notification Deadline: 04/06/2022*
- **NIH: Genome Research Experiences to Attract Talented Undergraduates into Genomic Fields to Enhance Diversity**  
  *Notification Deadline: 04/06/2022*
- **NIH: Faculty Institutional Recruitment for Sustainable Transformation Cohort**  
  *Notification Deadline: 04/12/2022*
- **NEA: Grants for Arts Projects**  
  *Notification Deadline: 04/13/2022*
- **NSF: Partnerships for Innovation**  
  *Notification Deadline: 04/13/2022*

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 [Limited Submissions page](#). 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 ndsu.researchdev@ndsu.edu.

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**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 [SPIN page](#) on the RCA website. If you have questions, please contact ndsu.researchdev@ndsu.edu.
DoD: Extramural Medical Research

The United States Army Medical and Materiel Command’s (USAMRDC) mission is to provide solutions to medical problems of importance to the American Service member at home and abroad, as well as to the general public at large. The scope of the effort and the priorities attached to specific projects are influenced by changes in military and civilian medical science and technology, operational requirements, military threat assessments, and national defense strategies. For this Broad Agency Announcement (BAA) [W81XWH18SBA1], research areas of interest include:

- Military Infectious Diseases;
- Combat Casualty Care;
- Military Operational Medicine;
- Medical Biological Defense;
- Medical Chemical Defense; and
- Radiation Health Effects.

This BAA closes September 30, 2022

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DOE: Urban Integrated Field Laboratories – 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.

DOE Urban IFLs: Notify RCA if you are interested in submitting to this program. The agency deadline for the pre-application is April 19, 2022. Approval to submit will be given to the first to notify.

The DOE SC Program in Biological and Environmental Research (BER), Earth and Environmental System Sciences Division (EESSD) is interested in applications from
the scientific community for Urban Integrated Field Laboratories (Urban IFLs) [DE-FOA-0002581] that will improve the science underpinning our understanding of climate and environmental predictability across complex and variable urban regions. EESSD supports fundamental systems level research aimed at identifying the foundational principles of dynamic physical, biogeochemical, and human processes and interactions and advancing fundamental understanding of the predictability of the climate and broader Earth system. EESSD develops the science, technology, and knowledge base that is necessary to inform actions to enable the resilience of natural-human systems that are exposed to climate trends, variabilities, and extremes.

For the purposes of this Funding Opportunity Announcement (FOA), urban regions are densely populated areas, encompassing interdependent environmental, ecological, infrastructure, and human components. Urban regions of interest for this FOA are in climate-sensitive locations, and are highly heterogeneous, i.e. having uneven distribution of physical landforms and vegetation, environmental processes, the built environment and infrastructure, population density, and socioeconomic clustering in the urban landscape, particularly when that heterogeneity relates to impacts on disadvantaged communities. The Urban IFLs will necessarily involve diverse scientific disciplines to develop comprehensive projects including field observations, data assimilation, modeling, and model-data fusion, to inform equitable solutions based on state-of-the-art uncertainty quantification and data analytics. Applications must be multi-institutional and focus on the development of a single IFL. While multiple IFLs may be selected in response to this FOA, considered together, each of the selected IFLs will represent different aspects of understanding urban systems, potentially including diverse demographic characteristics; differing climate-induced pressures on people and infrastructures; and unique geographic settings, e.g., coastal; arid lands; mountains; plains; or Great Lakes.

**LIMITED SUBMISSION:** Applicant institutions are limited to no more than one letter of intent, pre-application, or application as lead institution.
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.

NEA Grants for Arts: Notify RCA by April 13, 5:00p.m., if you are interested in submitting to this program.

Through project-based funding, the National Endowment for the Arts (NEA) Grants for Arts Projects program supports public engagement with, and access to, various forms of art across the nation, the creation of art, learning in the arts at all stages of life, and the integration of the arts into the fabric of community life.

NEA funds arts projects in the following disciplines: Artist Communities, Arts Education, Dance, Design, Folk & Traditional Arts, Literary Arts, Local Arts Agencies, Media Arts, Museums, Music, Musical Theater, Opera, Presenting & Multidisciplinary Arts, Theater, and Visual Arts.

A project may consist of one or more specific events or activities; it may be a new initiative or part of your organization’s regular season or activities.

Grants range from $10,000 to $100,000. All grants require a nonfederal cost share or match of at least 1 to 1. In the past few years, a majority of the agency’s grants have been for amounts less than $25,000.

LIMITED SUBMISSION: An organization may submit only one application to the FY 2023 Grants for Arts Projects program; however, a parent organization that comprises separately identifiable and independent components (e.g., a university campus that has a presenting organization and a radio station) may submit an application for each such component. In addition, a parent organization also may submit one application on its own behalf for a project that is different from any project submitted in an application by its independent component(s).
NIH: Development of Informatics Technologies for Cancer Research and Management

The National Institutes of Health (NIH) National Cancer Institute (NCI) has released several opportunities related to development of enabling informatics technologies to improve the acquisition, management, analysis, and dissemination of data and knowledge across the cancer research continuum including cancer biology, cancer treatment and diagnosis, early cancer detection, risk assessment and prevention, cancer control and epidemiology, and / or cancer health disparities.

- RFA-CA-22-021, R21 Exploratory / Developmental Grants
- RFA-CA-22-022, U01 Research Project (Cooperative Agreements)
- RFA-CA-22-023, U24 Resource-Related Research Project (Cooperative Agreements)
- RFA-CA-22-024, U24 Resource-Related Research Project (Cooperative Agreements)

*Upcoming deadlines: June 14, November 17*

NIJ: Research on Juvenile Justice Topics

With this solicitation [O-NIJ-2022-171216], the National Institute of Justice (NIJ), in collaboration with the Office of Juvenile Justice and Delinquency Prevention (OJJDP), seeks proposals for rigorous research and evaluation projects that inform policy and practice in the field of juvenile justice. Specifically, this solicitation seeks proposals for studies that advance knowledge and understanding in the following three categories: (1) juvenile indigent defense in delinquency proceedings, (2) co-occurring mental health and substance use disorders in juvenile residential facilities, and (3) assessing dual system youth data linkage capacity across juvenile justice and child welfare systems. Applications proposing research outside of these three categories will not be considered.
Deadline: May 9, 2022

**NSF: Human Networks and Data Science**

The Human Networks and Data Science (HNDS) program [NSF 22-505](https://nsf.gov/) supports research that enhances understanding of human behavior by leveraging data and network science research across a broad range of topics. HNDS research will identify ways in which dynamic, distributed, and heterogeneous data can provide novel answers to fundamental questions about individual and group behavior. HNDS is especially interested in proposals that provide data-rich insights about human networks to support improved health, prosperity, and security.

HNDS has two tracks:

1. **Human Networks and Data Science – Infrastructure (HNDS-I).** Infrastructure proposals will address the development of data resources and relevant analytic techniques that support fundamental Social, Behavioral and Economic (SBE) research. Successful proposals will, within the financial resources provided by the award, construct user-friendly large-scale next-generation data resources and relevant analytic techniques and produce a finished product that will enable new types of data-intensive research. The databases or techniques should have significant impacts, either across multiple fields or within broad disciplinary areas, by enabling new types of data-intensive research in the SBE sciences.

2. **Human Networks and Data Science – Core Research (HNDS-R).** Core research proposals will advance theory in a core SBE discipline by the application of data and network science methods. This includes the leveraging of large data sets with diverse spatio-temporal scales of measurement and linked qualitative and quantitative approaches, as well as multi-scale, multi-level network data and techniques of network analysis. Supported projects are expected to yield results that will enhance, expand, and transform theory and methods, and that generate novel understandings of human behavior – particularly understandings that can improve the outcomes of significant societal opportunities and challenges. HNDS-R encourages core research proposals that make innovative use of NSF-supported data networks, data bases, centers, and other forms of scientific infrastructure including those developed by HNDS-I projects.
NSF: Partnerships for Innovation – 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 PFI: Notify RCA by April 13, 5:00p.m., if you are interested in submitting to this program.

The Partnerships for Innovation (PFI) Program [NSF 19-506] within the Division of Industrial Innovation and Partnerships (IIP) offers researchers from all disciplines of science and engineering funded by NSF the opportunity to perform translational research and technology development, catalyze partnerships and accelerate the transition of discoveries from the laboratory to the marketplace for societal benefit.

PFI has five broad goals:

1. identifying and supporting NSF-sponsored research and technologies that have the potential for accelerated commercialization;
2. supporting prior or current NSF-sponsored investigators, institutions of higher education, and non-profit organizations that partner with an institution of higher education in undertaking proof-of-concept work, including the development of technology prototypes that are derived from NSF-sponsored research and have potential market value;
3. promoting sustainable partnerships between NSF-funded institutions, industry, and other organizations within academia and the private sector with the purpose of accelerating the transfer of technology;
4. developing multi-disciplinary innovation ecosystems which involve and are responsive to the specific needs of academia and industry; and
5. providing professional development, mentoring, and advice in entrepreneurship, project management, and technology and business development to innovators.

This solicitation offers two broad tracks for proposals in pursuit of the aforementioned goals:

• The **Technology Translation (PFI-TT) track** offers the opportunity to translate prior NSF-funded research results in any field of science or engineering into technological innovations with promising commercial potential and societal impact. PFI-TT supports commercial potential demonstration projects for academic research outputs in any NSF-funded science and engineering discipline. This demonstration is achieved through proof-of-concept, prototyping, technology development and/or scale-up work. Concurrently, students and postdoctoral researchers who participate in PFI-TT projects receive education and leadership training in innovation and entrepreneurship. Successful PFI-TT projects generate technology-driven commercialization outcomes that address societal needs.

• The **Research Partnerships (PFI-RP) track** seeks to achieve the same goals as the PFI-TT track by supporting instead complex, multi-faceted technology development projects that are typically beyond the scope of a single researcher or institution and require a multi-organizational, interdisciplinary, synergistic collaboration. A PFI-RP project requires the creation of partnerships between academic researchers and third-party organizations such as industry, non-academic research organizations, federal laboratories, public or non-profit technology transfer organizations or other universities. Such partnerships are needed to conduct applied research on a stand-alone larger project toward commercialization and societal impact. In the absence of such synergistic partnership, the project’s likelihood for success would be minimal.

The intended outcomes of both PFI-TT and PFI-RP tracks are: a) the commercialization of new intellectual property derived from NSF-funded research
outputs; b) the creation of new or broader collaborations with industry (including increased corporate sponsored research); c) the licensing of NSF-funded research outputs to third party corporations or to start-up companies funded by a PFI team; and d) the training of future innovation and entrepreneurship leaders.

LIMITED SUBMISSION: There is no limit on the number of PFI-TT proposals an organization may submit to a deadline of this solicitation. However, an organization may not submit more than one (1) new or resubmitted PFI-RP proposal to a deadline of this solicitation.

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NSF: Research Experiences for Undergraduates

The Research Experiences for Undergraduates (REU) program [NSF 19-582] supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research: (1) REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) REU Supplements may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects.

Deadline: August 24, 2022

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Prevent Cancer Foundation – 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.

Prevent Cancer Foundation: Notify RCA if you are interested in submitting to this program. The agency deadline is April 25, 2022; approval to submit will be given to the first to notify.

The Prevent Cancer Foundation 2022 Community Grants cycle is now open. The Foundation will provide $25,000 one-year grants for organizations that will develop new or implement existing community projects / programs in cancer prevention and early detection. Our goal is to provide the resources needed to fund vital community-level activities in cancer prevention (including education or vaccination) or screening. For the 2022 cycle, the Foundation invites applications focused on providing cancer prevention education, outreach, and screening in the LGBTQ+ communities.

LIMITED SUBMISSION: Only one application may be submitted by an organization.

USDA: AFRI Education and Workforce Development
The Agriculture and Food Research Initiative (AFRI) - Education and Workforce Development (EWD) focuses on developing the next generation of research, education, and extension professionals in the food and agricultural sciences. In 2022, the National Institute of Food and Agriculture (NIFA) requests applications for the AFRI’s Education and Workforce Development program areas to support:

1. professional development opportunities for K-14 educational professionals;
2. non-formal education that cultivates food and agricultural interest in youth;
3. workforce training at community, junior, and technical colleges;
4. training of undergraduate students in research and extension;
5. fellowships for predoctoral candidates and postdoctoral scholars; and
6. special workforce development topics.

_Deadlines vary by program area._

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**Strategies for Antiracist Action in STEM Labs**

**April 6, 2022 | 11am-12pm**

The ADVANCE Partnership Project ‘Joining Forces,’ an NSF-funded collaboration between Iowa State University, Michigan Technological University, NDSU, and Western Michigan University, is hosting a virtual session on Strategies for Antiracist Action in STEM Labs presented by Dr. Bala Chaudhary from Dartmouth College. Labs are our scientific homes, the front lines of where either inclusion and belonging are fostered, or where exclusion, marginalization, and discrimination occur. As scientists are increasingly acknowledging the lack of racial and ethnic diversity in science, there is a need for clear direction on how to take antiracist action. Guidelines for developing antiracist policies and action will be presented as well as discussion in an effort to promote racial and ethnic diversity, equity, and inclusion.

*Learn more and register >>*

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**Workshop: University-Industry Partnerships in the Social Sciences**

**April 20-21, 2022 | College Park, MD**

The University of Maryland, College Park, in partnership with UIDP and with support from the National Science Foundation, as well as MITRE, Optimal Solutions Group, SAGE Publishing, the Consortium of Social Science Associations, and the Federation of Associations in Behavioral & Brain Sciences, is hosting this workshop April 20-21, 2022, at The Hotel at the University of Maryland. Join 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. This event will complement the virtual workshop held on October 14, 2021 (see recording and materials).
Save the Date: 2022 Annual AlCoRN Summit & DaCCoTA Symposium
August 4-5, 2022 | Sioux Falls, SD
The American Indian Collaborative Research Network (AlCoRN) Summit & Dakota Cancer Collaborative on Translational Activity (DaCCoTA) Symposium events will include education opportunities, poster sessions, DaCCoTA Awardee presentations, and networking opportunities. For additional information about the symposium please visit: med.UND.edu/daccota/symposium.html.

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.

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.

We collectively acknowledge that we gather at NDSU, a land grant institution, on the traditional lands of the Oceti Sakowin (Dakota, Lakota, Nakoda) and Anishinaabe Peoples in addition to many diverse Indigenous Peoples still connected to these lands. We honor with gratitude Mother Earth and the Indigenous Peoples who have walked with her throughout generations. We will continue to learn how to live in unity with Mother Earth and build strong, mutually beneficial, trusting relationships with Indigenous Peoples of our region.