Join in our weekly "Lunch and Learn with a Program Officer" online conversations with RCA vice president for research and creative activity Colleen Fitzgerald, PhD. These sessions will be held Fridays from 12pm (noon) - 1pm, March 4 through May 14.

Special guest for March 25: Holly Hapke, PhD
On March 25, our conversation will be led by Holly Hapke, PhD, Director of Research Development at the school of social sciences at University of California, Irvine. Holly is a geographer and interdisciplinary social scientist with research interests in political economy, rural development, gender, fisheries and food production systems, migration, ecological conflict, and South Asia.

From 2014 to 2017 Holly served as a program director in the Directorate for Social, Behavioral and Economic Sciences at the National Science Foundation with responsibilities for the Geography and Spatial Sciences, Dynamics of Coupled Natural and Human Systems, and Transformations to Sustainability Programs and the Working Groups on the Science of Broadening Participation and Navigating the New Arctic.

Prior to arriving at UCI, Holly spent 22 years as a professor in the Department of
New NSF Directorate:
Technology, Innovation, and Partnerships

The National Science Foundation (NSF) has established the Directorate for Technology, Innovation and Partnerships (TIP). This new directorate is NSF’s first in more than 30 years. TIP will be a critical first step to accelerate the development of new technologies and products that improve Americans’ way of life, grow the economy and create new jobs, and strengthen and sustain U.S. competitiveness for decades to come.

Through TIP, NSF plans to launch a set of new and tightly integrated initiatives. Together, these initiatives will advance critical and emerging technologies; accelerate the translation of research results from the lab to market and society; and cultivate new education pathways leading to a diverse and skilled future technical workforce comprising researchers, practitioners, technicians and entrepreneurs.

In addition, NSF is repositioning much of its extensive portfolio of innovation and translation programs within the TIP Directorate. For example, the NSF Lab-to-Market Platform comprising the NSF Innovation Corps (I-Corps™), Partnerships for Innovation (PFI), and Small Business Innovation Research and Small Business Technology Transfer (SBIR and STTR) programs, along with the NSF Convergence Accelerator, are now in TIP. This should not result in any operational changes to existing NSF awards or to these programs.

NSF has selected Dr. Erwin Gianchandani to be the inaugural Assistant Director for Technology, Innovation and Partnerships, leading the TIP Directorate. Dr. Gianchandani previously served as the Deputy Assistant Director for Computer and Information Science and Engineering for six years, and has been the Senior Advisor for Translation, Innovation and Partnerships for the last year.

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**Webinar: Funding Landscape for Arts & Humanities**

**Thursday, March 24 | 11-11:45am**

In this webinar, Hanover will provide an introduction to the Arts and Humanities funding landscape, including:

- a review of major funders active in supporting Arts and Humanities at the federal, state, and foundation levels;
- a discussion of research and programmatic work in the Arts and Humanities most commonly being funded through grants; and
- getting started with grants for faculty in the Arts and Humanities.

[Register to attend >>]

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**FUNDING OPPORTUNITIES**

- DARPA: Microsystems Technology Office
- DoD: Air Force Young Investigator Program
- DoD: Congressionally Directed Medical Research Program
- Meta: Privacy Enhancing Technologies
- National Institute of Justice Opportunities
- NIH: Bioengineering Partnerships with Industry
- NIH: Enhancing Social Connectedness and Ameliorating Loneliness to Prevent and Treat SUD and Support Recovery
- NIH: National Institute on Aging Program Projects
- NIH: NIAID Research Education Program
- NIH: Short-term Research Education Experiences to Attract Talented Students to Biomedical Informatics / Data Science Careers
- NSF DCL: Design for Sustainability in Computing
- NSF: Research in the Formation of Engineers
- NSF: Research Traineeship – LIMITED
• Russell Sage Foundation: Social Science Research
• USDA-NIFA: Beginning Farmer and Rancher Development Program
• USDA-NIFA: Foundational and Applied Science
• USDA-NIFA: Integrated Research, Education, and Extension: Organic Transitions
• USDA-NIFA: Sustainable Agricultural Systems
• USDA-NIFA: Technical Assistance Investment Program – LIMITED

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 by close of business on the notification deadline.

If you identify a limited submission opportunity that is not on the list below, please notify ndsu.researchdev@ndsu.edu.

• USDA-NIFA: American Rescue Plan Technical Assistance Investment Program
  Notification Deadline: 03/25/2022
• USDA-NIFA: Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers and Veteran Farmers and Ranchers
  Notification Deadline: 03/30/2022
• NSF: Research Traineeship
  Notification Deadline: 04/06/2022
• NIH: Faculty Institutional Recruitment for Sustainable Transformation Cohort
  Notification Deadline: 04/12/2022

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.
- HRSA: Maternal and Child Environmental Health Network  
  *Deadline: 3/28/2022*
- USDA-NIFA: Organic Agriculture Research and Extension Initiative  
  *Deadline: 03/31/2022*
- USDA: Women and Minorities in STEM Fields Program  
  *Deadline: 3/31/2022*
- Breast Cancer Alliance  
  *Deadline: 04/01/2022*
- HRSA: Children and Youth with Special Health Care Needs Research Network  
  *Deadline: 4/4/2022*
- USDA-NIFA: Veterinary Services Grant Program  
  *Deadline: 04/05/2022*
- USDA-NIFA: Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom  
  *Deadline: 4/6/2022*
- SBA: Boots to Business on Training  
  *Deadline: April 11, 2022*
- HRSA: Health Workforce Research Center  
  *Deadline: 4/14/2022*
- NEA: Challenge America  
  *Deadline: 04/21/2022*
- NIH: Collaborative Program Grant for Multidisciplinary Teams  
  *Deadline: 04/27/2022*
- USDA-NIFA: Rural Health and Safety Education  
  *Deadline: 04/29/2022*
- SAMHSA: Grants to Expand Substance Abuse Treatment Capacity in Adult and Family Treatment Drug Courts  
  *Deadline: May 9, 2022*
- NSF: Research Visioning for CISE - Future Research Directions  
  *Deadline: 05/10/2022*
- NSF: Training-based Workforce Development for Advanced Cyberinfrastructure  
  *Deadline: 05/16/2022*
- VentureWell: Course & Program Grants  
  *Deadline: 05/18/2022*
• NIH: Research Experience in Genomic Research for Data Scientists  
  Deadline: 05/25/2022
• NIH: Undergraduate Research Training Initiative for Student Enhancement  
  Deadline: 05/26/2022
• NIH: Team-based Design in Biomedical Engineering Education  
  Deadline: 05/30/2022
• NIH: Asthma and Allergic Diseases Cooperative Research Centers  
  Deadline: 06/03/2022

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.

DARPA: Microsystems Technology Office
The Defense Advanced Research Projects Agency (DARPA) Microsystems Technology Office (MTO) is soliciting research ideas in its areas of interest, which include:

- advanced imaging architectures and systems;
- advanced photonic and electronic interconnects;
- chip-scale sensors;
- computational architectures and algorithms for next generation AI;
- electronics and micro sensors for harsh environments;
- hardware assurance, reliability, and validation;
- low temperature electronics;
- materials to enable next-generation microelectronics; and
- Microsystems for RF / optical transceivers.
For a full list of areas of interest, see the solicitation [HR001122S0030].

This opportunity is open through January 2024.

DoD: Air Force Young Investigator Program
The Fiscal Year 2023 Air Force Young Investigator Research Program (YIP) intends to support early career scientists and engineers who have received PhD or equivalent degrees by April 1, 2015, or later showing exceptional ability and promise for conducting basic research. The program objective is to foster creative basic research in science and engineering; enhance early career development of outstanding young investigators; and increase opportunities for the young investigator to recognize the Air Force and Space Force mission and related challenges in science and engineering.

Whitepaper Deadline: April 18, 2022

DoD: Congressionally Directed Medical Research Program
The Congressionally Directed Medical Research Program (CDMRP) currently has several open funding programs:

- Peer Reviewed Medical Research Program (PRMRP)
- Breast Cancer Research Program (BCRP)
- Lung Cancer Research Program (LCRP)

Deadlines vary by program mechanism.

Meta: Privacy Enhancing Technologies
Meta is soliciting applications on the following areas of interest:

- privacy preserving analytics;
- private record linkage and aggregation;
- privacy preserving machine learning;
- privacy of messaging;
• anonymous credentials;
• privacy preserving techniques in Data for Good; and
• privacy in Metaverse.

 Deadline: April 20, 2022

National Institute of Justice Opportunities
The National Institute of Justice (NIJ) has multiple open funding programs with upcoming deadlines:

• Research and Evaluation on Domestic Radicalization and Violent Extremism
  Deadline: April 25, 2022
• Research and Evaluation on Hate Crimes
  Deadline: April 25, 2022
• Racial and Ethnic Disparities in the Justice System
  Deadline: April 26, 2022
• Research and Evaluation on Violence Against Women
  Deadline: April 26, 2022
• Research and Development in Forensic Science for Criminal Justice Purposes
  Deadline: May 9, 2022
• Research and Evaluation on School Safety
  Deadline: May 9, 2022

To view all currently open solicitations, visit the [NIJ Funding Page](#).

NIH: Bioengineering Partnerships with Industry (U01 Clinical Trial Optional)
This Funding Opportunity Announcement (FOA) [PAR-22-123](#) solicits applications from research partnerships formed by academic and industrial investigators to accelerate the development and adoption of promising bioengineering tools and technologies that can address important biomedical problems. The objectives are to establish these tools and technologies as robust, well-characterized solutions that fulfill an unmet need and are capable of enhancing our understanding of life science processes or the practice of medicine. Awards will focus on supporting multidisciplinary teams that apply an
integrative, quantitative bioengineering approach to developing technologies. The goal of the program is to support technological innovations that deliver new capabilities which can realize meaningful solutions within 5-10 years.

*Upcoming Deadlines: May 26 and September 26, 2022*

**NIH: Enhancing Social Connectedness and Ameliorating Loneliness to Prevent and Treat SUD and Support Recovery (R21 – Clinical Trial Not Allowed)**

This Funding Opportunity Announcement (FOA) [RFA-DA-23-009] encourages exploratory and developmental research to better understand the role of social connectedness and/or loneliness in prevention, treatment and recovery from substance use disorders (SUDs). Research may use a variety of approaches, including leveraging existing data sources, survey research, social network analysis, new methods development, feasibility research, etc. Outcomes of interest include any of the following: substance use initiation, escalation, SUD diagnosis, connection to treatment, and engagement or retention in treatment or recovery.

*Deadline: August 15, 2022*

**NIH: National Institute on Aging Program Projects**

The National Institute on Aging (NIA) invites the submission of investigator-initiated research program project (P01) applications addressing scientific areas relevant to NIA's mission [PAR-22-130]. Each application submitted to this Funding Opportunity Announcement (FOA) must include at least three related research projects that share a common central theme, focus, and overall objective, in addition to an administrative core to lead the project.

*Upcoming deadlines: September 25, 2022; January 25, 2023*
NIH: NIAID Research Education Program

The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers. The overarching goal of this National Institute of Allergy and Infectious Diseases (NIAID) R25 program [PAR-22-134] is to support educational activities that complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs.

To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on:

- **Courses for Skills Development**: For example, advanced courses in a specific discipline or research area, clinical procedures for research, or specialized research techniques.
- **Research Experiences**: For example, for undergraduate students: to provide hands-on exposure to research, to reinforce their intent to graduate with a science degree, and/or to prepare them for graduate school admissions and/or careers in research; for graduate and medical, dental, nursing and other health professional students: to provide research experiences and related training not available through formal NIH training mechanisms; for postdoctorates, medical residents and faculty: to extend their skills, experiences, and knowledge base; for high school and college science teachers: to enhance their science teaching.
- **Mentoring Activities**: For example, dedicated efforts at providing not only technical expertise, but advice, insight, and professional career skills to college students, graduate students, postdoctorates and/or early-career faculty.

*Deadline: May 25, 2022*

NIH: Short-term Research Education Experiences to Attract Talented Students to Biomedical Informatics / Data Science Careers and Enhance Diversity (R25 Clinical Trial Not Allowed)

This R25 research education program [RFA-LM-22-001] enhances the National Library of Medicine’s (NLM) training efforts by providing exposure to biomedical informatics research to talented undergraduate and master’s students, including students underrepresented in the field. The program will complement these research experiences
with activities to reinforce the students' intent to graduate and prepare them for doctoral admissions and / or careers in biomedical informatics and data science research.

To accomplish NLM’s goal, the R25 program will support creative educational activities that expose undergraduates and master’s students to research that NLM supports, to reinforce their intent to graduate, and prepare them for doctoral program admissions. Applicants to the R25 program will be expected to develop a bioinformatics research education program where participants will be supported short-term (i.e., 12 weeks during the summer). In addition, skills development courses / seminars / workshops that introduce participants to fundamental knowledge in such areas as biomedical, clinical, public health, translational, and consumer health informatics; machine learning, artificial intelligence, health equity, health disparities, and information science will be expected.

*Deadline: May 31, 2022*

**NSF-DCL: Design for Sustainability in Computing**

The purpose of this [Dear Colleague Letter (DCL)](https://www.nsf.gov/publications/show NSF-21-616) is to encourage the submission of novel and high impact proposals that advance sustainability in all aspects of computing to the [CISE Core programs](https://www.nsf.gov/publications/show NSF-21-616).

This DCL invites transformative, cross-disciplinary and potentially clean slate approaches to enable sustainability across all levels of the entire computing stack from hardware to networking to software applications. Proposals are encouraged to consider diverse notions of sustainability and propose suitable metrics for quantifying impact. Traditional energy efficiency and power savings methods alone are not in scope for this DCL. Computing techniques for sustainability in other fields are not in scope for this DCL. This DCL seeks ambitious and forward-thinking proposals on Design for Sustainability in Computing along multiple dimensions that go beyond energy efficiency.

See [full letter](https://www.nsf.gov/publications/show NSF-21-616) for more information.

**NSF: Research in the Formation of Engineers (RFE)**
This program [NSF PD 22-1340] aims to advance understanding of professional formation. It seeks both to deepen fundamental understanding of the underlying processes and mechanisms that support professional formation and to demonstrate how professional formation is or can be accomplished. Ultimately RFE aims to transform the engineer-formation system, and thus the impact of proposed projects on this system must be described. Principal Investigators (PIs) should provide a roadmap detailing how they envision the proposed research will eventually broadly impact practice within the engineer-formation system, even if these activities are not within the scope of the submitted proposal.

*Proposals accepted anytime*

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**NSF: Research Traineeship – 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 04/06/2022, 5:00pm if you are interested in submitting to this program.

The National Science Foundation (NSF) Research Traineeship (NRT) program [NSF 21-536] seeks proposals that explore ways for graduate students in research-based master’s 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 or convergent research areas, through a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. Proposals are requested that address any interdisciplinary or convergent research theme of national priority, with special emphasis on *Artificial Intelligence* (AI), *Quantum Information Science and Engineering* (QISE), and the six research areas within NSF’s 10 Big Ideas: Harnessing the Data Revolution (HDR); The Future of Work at the Human-Technology Frontier (FW-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 (URoL).

The NRT program addresses workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. The program encourages proposals that involve 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.

**LIMITED SUBMISSION:** NDSU may participate in only two (2) proposals per NRT competition as lead or collaborative non-lead. NDSU is only eligible for the Track 1 program. Participation includes serving as a lead organization or non-lead organization on any proposal. Organizations participating only as evaluators on projects are excluded from this limitation.

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**Russell Sage Foundation: Social Science Research**

The [Russell Sage Foundation](RSF) will accept letters of inquiry (LOIs) under all of its core programs and special initiatives: Behavioral Science and Decision Making in Context; Future of Work; Immigration and Immigrant Integration; Race, Ethnicity and Immigration; Social, Political, and Economic Inequality. In addition, RSF will also accept LOIs relevant to any of its core programs that address at least one of the following issues:

1. **Research on the Covid-19 pandemic and the resulting recession in the U.S.** Specifically, research that assesses the social, political, economic, and psychological causes and consequences of the pandemic, especially its effects on marginalized individuals and groups and on trust in government and other institutions. Our priorities do not include analyses of health outcomes or health behaviors. RSF seldom supports studies focused on outcomes such as educational processes or curricular issues, but does prioritize analyses of inequities in educational attainment or student performance.

2. **Research focused on systemic racial inequality and / or the recent mass protests in the U.S.** Specifically, research that investigates the prevalence of racial
disparities in policing and criminal justice and their social, political, economic, and psychological causes and consequences; the effects of the current social protest movement and mass mobilization against systemic discrimination; the nature of public attitudes and public policies regarding policing, criminal justice, and social welfare; and the effects of those attitudes in the current political environment.

Deadline: May 4, 2022

**USDA-NIFA: Beginning Farmer and Rancher Development Program**

This request for applications is soliciting applications for the Beginning Farmer and Rancher Development Program (BFRDP) to support delivery of education, mentoring, and technical assistance for beginning farmers and ranchers in the United States and its territories that are entering, establishing, building, and managing successful farm and ranch enterprises. No more than $250,000 per year for three years for a maximum total of approximately $750,000 will be available for each Standard, Educational Team as well as Curriculum and Training Clearinghouse projects funded in FY 2022.

Deadline: May 19, 2022

**USDA-NIFA: Foundational and Applied Science**

The Agriculture and Food Research Initiative (AFRI) Foundational and Applied Science Program supports grants in six AFRI priority areas to advance knowledge in both fundamental and applied sciences important to agriculture:

1. Plant Health and Production and Plant Products;
3. Food Safety, Nutrition, and Health;
4. Bioenergy, Natural Resources, and Environment;
5. Agriculture Systems and Technology; and
6. Agriculture Economics and Rural Communities.

Deadlines vary by program area.

This program aims to support the development and implementation of research, extension and higher education programs to improve the competitiveness of organic livestock and crop producers, as well as those who are adopting organic practices.

*Deadline: April 21, 2022*

USDA-NIFA: Sustainable Agricultural Systems

The Agriculture and Food Research Initiative's Sustainable Agricultural Systems (SAS) program area promotes the sustainable supply of abundant, affordable, safe, nutritious, and accessible food and other agricultural products, while enhancing economic opportunities and improving the long-term health and well-being of all Americans.

Funding will support projects focused on increasing agricultural productivity; optimizing water and nitrogen use efficiency; protecting yield losses from stresses, diseases, and pests; reducing food-borne diseases; and advancing development of biobased fuels, chemicals, and coproducts. This RFA is soliciting creative and visionary project applications that use transdisciplinary teams and integrated research, education, and extension / outreach activities to promote convergence of science and technology to solve present and future food and agricultural production system challenges.

*Letter of Intent Deadline: April 27, 2022*

USDA-NIFA: American Rescue Plan Technical Assistance Investment Program – 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.

**USDA Tech Assistance Investment:** Notify RCA by 03/25/2022, 5:00pm if you are interested in submitting to this program.

The primary goal of [American Rescue Plan Technical Assistance Investment Program](#) is to ensure improved understanding of and equitable participation in the full range of USDA programs and services among underserved farmers, ranchers, forest land owners and operators through supporting the organizational delivery of technical assistance projects and establishment of technical assistance networks. USDA is authorized to support and facilitate the establishment of technical assistance projects toward this goal. Projects must provide a range of technical assistance services to underserved agricultural producers. The term “agricultural producer” is used to refer to agricultural farmers, ranchers, and private forest land owners and operators.

**LIMITED SUBMISSION:**
Only one submission is allowed per eligible organization.

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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.