NDSU receives $2.9 million NSF award to help post-baccalaureate students get involved with research

NDSU has received a Research and Mentoring for Post-baccalaureates (RaMP) in Biological Sciences grant of nearly $2.9 million from the National Science Foundation (NSF). The university is one of only 12 institutions nationwide to receive the award which will provide opportunities for recently graduated undergraduate students to participate in a research lab and develop a network of research mentors across North Dakota. This combination holds promise in fueling the state’s STEM workforce while providing the environment necessary to create tomorrow’s high-tech industries.

The program, titled "Exploration of Variation across Levels of Organization in a CHANGEable World: Fostering CHANGE through Research in a Community of Practice," will be called NDSU CHANGE.

NDSU CHANGE will run for four years and will support full-time research, mentoring, and training for recent college graduates. These opportunities will greatly benefit participants who have had
little or no research or training opportunities during college in research fields typically supported by the NSF Directorate of Biological Sciences.

Tim Greives, NDSU associate professor of biological sciences and PI for the project sees how NDSU CHANGE can benefit a certain group of people. “This program spoke to us as educators because we’ve all observed students who were either working full-time or had other life restrictions that didn’t give them the opportunity to participate in research during their undergraduate years. Our team knows firsthand how important research experiences are for students in whatever careers they choose, so we were excited to be able to create a program that would offer those experiences to them.”

CoPIs are Jennifer Momsen, NDSU professor of biological sciences and director of Discipline Based Education Research (DBER) and Britt Heidinger, NDSU associate professor of biological sciences and the coordinator for the NATURE Sunday Academy Program. Greives and Heidinger will manage the development of the biological themes upon which the mentees will work.

NDSU CHANGE participants will work on research projects with mentor researchers from NDSU, Tribal Colleges in North Dakota and the USDA, USGS, and Nature Conservatory. Each participant will work for one year in a lab and will receive a paycheck for their time. “We’ll start by funding three cohorts of 8-12 individuals each year,” commented Greives. “They will be located both at NDSU and at the Tribal Colleges in North Dakota.”

“This program provides time to learn through active full-time engagement with research while helping participants determine their next steps, which may be graduate school or industry.” Greives added.

The experiences that both Momsen and Heidinger bring in developing mentors will fit well into the program. “Learning how to mentor is not something we teach enough,” said Momsen. “My previous experiences running an REU program made me realize that my knowledge about mentoring and learning would be an asset to this project.”

“By helping create new professionals among groups that didn’t have the opportunity to experience research during their undergraduate years, the NDSU CHANGE program will help build a diverse research workforce and increase innovative scientific skills,” said
Kimberly Wallin, dean of science and math at NDSU. “This aligns with our strategic initiatives in the College of Science and Math for research and mentoring and I look forward to seeing how Tim, Jenni, and Britt’s work will help build upon the entrepreneurial environment in North Dakota and beyond.”

Post-baccalaureates will be considered for the project through an application process which may initiate either with the individual or with an educator who sees potential in a student. Developing both the application process and recruitment strategies are among the first tasks facing the team.

The NSF hopes that this program will foster the growth of a globally competitive and diverse research workforce and will advance the innovative scientific skills of the country.

For more information about "Exploration of Variation across Levels of Organization in a CHANGEable World: Fostering CHANGE through Research in a Community of Practice," see NSF award abstract 2216605.

NDSU named lead institution for $14 million NSF I-Corps Hub

NDSU has been awarded a $14 million grant over five years from the National Science Foundation (NSF) to establish a multi-institutional Great Plains Innovation Corps (I-Corps) Hub that will provide immersive, entrepreneurial training for scientists and engineers with the goal of moving ideas to commercialization.

The NSF’s I-Corps program began in 2011 with the goal to successfully train an entrepreneurial workforce while bringing cutting-edge technologies quickly to market and nurturing an innovation ecosystem. The program’s two-month training is experiential and immersive and helps prepare scientists to extend their focus beyond the university laboratory and accelerate the economic and societal benefits of NSF-funded research projects.
“Our Carnegie R1 research classification shows that we are already among the top research universities in the nation – continuing to nurture and grow that culture is among my top priorities,” said NDSU President David Cook. “This support from the National Science Foundation shows how the ingenuity of our faculty and students at NDSU will develop the inventors and entrepreneurs of tomorrow.”

NDSU VPR Fitzgerald announces changes to RCA organization structure

The NDSU Office of Research and Creative Activity will be adding a new unit and changing the roles of two long time employees.

As announced last week, Fitzgerald will now report directly to the President. As part of NDSU’s Carnegie R-1 efforts, RCA will be standing up a new unit, Strategic Research Initiatives, which will be headed by Sheri Anderson. Sheri’s new title will be AVP of strategic research initiatives. Cassie Johnson will also be a member of this new unit and has been promoted to proposal development manager.

The Strategic Research Initiatives unit will build upon the current proposal development services provided by the office and will offer support to faculty developing large collaborative and multi-stakeholder proposals; develop a research recognition program; implement strategic programs and the deployment of resources to help build the University’s research portfolio; advance R&D efforts through programming such as research leadership, team science, and convergence; and assist with federal relations that advance NDSU’s research mission.

Anderson's previous team will be renamed Research and Faculty Development and will consist of a new associate vice president and research development coordinator. Both positions are currently open and listed on NDSU’s employment website. Existing research development programming, such as new faculty support,
will be coordinated through the Strategic Research Initiatives Team until the new hires start.

"The success of the recent $14 million National Science Foundation award enabling NDSU to lead the new Great Plains I-Corps Hub shows that we are playing in the big leagues and that we are competitive and win awards when our office helps bring together researchers interested in breaking down silos and working on big ideas," said Fitzgerald. "Sheri and Cassie were vital players in supporting Dean Kessler, Dr. Grewell and the team including facilitating and coordinating with the seven partnering institutions. Other major projects have also relied on their efforts, and we look forward to continuing to serve our campus researchers in their endeavors."

Notice of impact for grants.gov and ASSIST systems

Grants.gov is migrating their services to the cloud and there will be an extended
downtime from Thursday, September 22, 2022 at 11:00 pm to Thursday, September 29, 2022 at 11:00 pm

This will impact grants.gov’s workspace, the electronic submission system and NIH’s electronic submission system, ASSIST. To mitigate the impact, NIH due dates that fall on or between Thursday, September 23 and Friday, September 30 will move to October 3, 2022.

Users will be able to work in ASSIST during this time, but submission is not possible. Grants.gov will not be available for proposal preparation or submission. We strongly encourage preparing and routing applications as early as possible to limit potential impacts as you will not be able to submit to these systems during this time.

Learn more >>

Science seminar: Chenzhong Li, PhD
You are invited to a seminar by Chenzhong Li, PhD, former National Science Foundation (NSF) program director of the Nano-Biosensing program in the Chemical, Bioengineering, Environmental and Transport Systems (CBET) Division.

Dr. Chenzhong Li is a professor of Biomedical Engineering and Biochemistry at Tulane University School of Medicine. Prior to joining Tulane, Dr. Li was the Worlds Ahead professor and the director of the Nanobioengineering / Bioelectronics Core in the Department of Engineering at Florida International University. He was formerly a Program Director at NSF overseeing biosensors and biomedical devices research and managing several hundreds of research projects in the field nationwide.

Dr. Li will discuss his current research activities in bioelectronics as well as his experience as an NSF program director, including information on interdisciplinary opportunities and advice for positioning proposals for NSF funding. Dr. Li will also be available after the session to answer questions about NSF.

Register to attend >>

National Endowment for the Humanities Proposal Writing Workshop

Wednesday, October 12, 2022; 12-1:30pm

Dr. Victoria Sams, NEH Division of Education Programs, and Dr. Geoff Burrows, NEH Division of Research Programs, will lead this virtual workshop on writing proposals to the National Endowment for the Humanities (NEH). As a follow-up to NDSU’s February 2022 session on funding opportunities in NEH/NEA, this event will provide more in-depth information on what makes for a competitive NEH proposal. Examples of funded programs will be provided as well as tips for success with NEH.
NSF programs to stop accepting proposals via FastLane

FastLane is scheduled to be removed as a submission option for NSF proposals in January 2023. Many programs have already stopped accepting proposals through FastLane, and others will stop accepting them over the remainder of 2022.

The transition from FastLane to Research.gov and Grants.gov is part of NSF’s ongoing information technology modernization efforts. Since NSF’s update on Research.gov implementation in September 2020, NSF has been gradually removing FastLane as a submission option in program solicitations and descriptions.

Please consult the tables in this document (PDF) for additional information about the transition to Research.gov, including dates when some programs will stop accepting proposals through FastLane. You can also check program web pages for information about which submission methods are accepted by each program and contact the program officers listed on those pages or email rgov@nsf.gov with any questions.

For tutorials and guidance on how to use Research.gov please visit the Research.gov proposal preparation and submission resources site.

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RCA Funding Opportunities

Research Development Travel and Conference Support Awards help defray expenses for faculty presenting at national conferences (virtual or on-site) or for
supporting travel to visit archives or special collections. As this pool of funding is limited, please consider allowing individuals who do not have other sources of travel funding to apply for this opportunity.

**Research Support Services Awards** help defray the costs of support services required for research, creative, or scholarly activity. For example, funds may be used in one of the NDSU Core Facilities, another recharge / service center, or for transcription services.

**Research Development Funding Agency Visit Travel Awards** help defray expenses for faculty traveling to meeting with Program Officers / Program Directors at funding agencies. This program requires a 1:1 match from the applicant’s department and / or college.

More information and application instructions are posted on the [RCA website](#).

**Additional RCA Opportunities**

- Planning a proposal to USDA-AFRI? [Learn more about the USDA-AFRI Preproposal Review Pilot Program](#).
- Recently served on a USDA Review Panel? [Volunteer to be part of the USDA Expert Bank at NDSU](#).
- Join VPR Fitzgerald on a [lab tour](#) (spots are limited).

**Upcoming Events**

- **NIH Grant Writing Webinar Series for Institutions Building Research and Research Training Capacity**
  September 26, and November 1; 1-2:15pm / [Learn more >>](#)

- **REGISTRATION OPEN: DARPA Forward Regional Events on National Security Innovation**
  August-December, 2022 / [Learn more >>](#)
**Webinar: Diving Deeper into the New NIH Data Management and Sharing Policy**
September 22, 2022; 12:30-2:30pm / Learn more >>

**Webinar: Introduction to NSF’s Directorate for Technology, Innovation, and Partnerships**
September 27, 2022; 1-2pm. Register >>

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**FUNDING OPPORTUNITIES**

- Dakota Community Collaborative on Translational Activity (DaCCoTA)
- DoD: Minerva Research Initiative – Social Science Research
- DOE: Industrial Efficiency and Decarbonization - LIMITED
- ND EPSCoR: STEM Research and Education
- NEH: Digital Humanities Advancement Grants
- NIH: Bioengineering Research Grants
- NIH: Time-Sensitive Opportunities for Health Research
- NSF: Environmental Engineering
- NSF: Partnerships for Innovation – LIMITED
- NSF: Science and Technology Studies
- NSF: Training-based Workforce Development for Advanced Cyberinfrastructure – LIMITED

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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.

If you identify a limited submission opportunity that is not on the list below, please notify ndsu.researchdev@ndsu.edu.
• **NIH: Collaborative Program Grant for Multidisciplinary Teams**  
  Notification Deadline: 09/15/2022

• **NSF: Scholarships in STEM (S-STEM) Program**  
  Notification Deadline: 09/15/2022

• **DOE: Industrial Efficiency and Decarbonization**  
  Deadline: 10/12/2022

• **NSF: Partnerships for Innovation**  
  Notification Deadline: 10/20/2022

• **NSF: Training-based Workforce Development for Advanced Cyberinfrastructure**  
  Notification Deadline: 10/20/2022

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.

• **NIH: Bridges to the Baccalaureate**  
  Deadline: 09/26/2022

• **NIH: Bridges to the Doctorate**  
  Deadline: 09/27/2022

• **NEH: Infrastructure and Capacity Building Challenge Grants**  
  Deadline: 09/27/2022

• **Johnson & Johnson: Women in STEM2D**  
  Deadline: 09/30/2022

• **LOC: Connecting Communities Digital Initiative**  
  Deadline: 09/30/2022

• **NSF: INCLUDES**  
  Deadline: 10/25/2022

• **USDA: Increasing Land, Capital, and Market Access**  
  Deadline: 10/28/2022

• **NSF: Louis Stokes Alliances for Minority Participation - STEM Pathways Implementation-Only**  
  Deadline: 11/18/2022
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.

Dakota Community Collaborative on Translational Activity (DaCCoTA)

The goal of the DaCCoTA is to bring together researchers and clinicians with diverse experience from across the region to develop unique and innovative means of combating disease in North and South Dakota. The DaCCoTA believes advances in disease treatment will come from broad approaches by collective groups of clinical and basic researchers who are focused on conducting clinical / translational research.

**DaCCoTA Scholars Program** - The purpose of this award is to stimulate the development of new CTR investigators. Awardees will receive salary support (50% FTE plus fringe) that guarantees a minimum of 50% protected research time for the project and up to $160,000 in annual research support (direct and indirect costs) for up to 5 years. Early career faculty are encouraged to apply.

**Community Engagement Scholars Program** - This award is a joint effort between the Professional Development and Community Engagement and Outreach Cores with the goal of developing successful clinical and translational research (CTR) investigators. Awardees will receive salary support (50% FTE plus fringe) that guarantees a minimum of 50% protected research time for the project and up to $160,000 in annual research support (direct and indirect costs) for up to 5 years. Early career faculty are encouraged to apply.

**Clinical Research Opportunities Program** - This program provides 20% release time (up to NIH cap) to community-practicing, hospital-based clinicians to allow for participation in training activities and collaboration in disease-focused CTR. The goal of the program is to begin to shift translational research in the Upper Midwest to an enterprise informed by the patient. Individuals may collaborate with both clinical and non-clinical scientists to help identify unmet clinical needs that can become the focus of translational research efforts.
**Introduction to Research Award** – This award is intended to allow non-faculty clinicians or early-stage investigators (ESIs; residents/postdoctoral scholars) to engage in research. This award aims to recruit a: 1) clinician from the American Indian Collaborative Rural Research Network (AICoRN) or rural and tribal communities; or 2) ESIs who have interest but no experience managing a research project or preparing a grant. Awardees will receive $15,000 in research support (direct and indirect costs) for one year.

**Feasibility Pilot Award** - The Feasibility Award is intended to provide support to allow a clinician/non-clinician team to form around a novel hypothesis. Awardees will receive $60,000 in research support (direct and indirect costs) for one year.

**Ready-to-Go Award** - The Ready-to-Go Award is intended for those projects with existing significant preliminary data in support of a novel hypothesis. Awardees will receive $120,000 in research support (direct and indirect costs) for one year.

**TREE Pilot Grant Award** – The Translating Epidemiology to Experiments (TREE) Pilot Grant Award is intended to provide seed funding for a public health/laboratory scientist team towards highly innovative projects that seek to translate promising epidemiological findings at the population level to relevant in vitro and/or in vivo experiments and/or the reverse, from in vitro and in vivo observations to a population setting. Awardees will be awarded up to $60,000 (direct + indirect costs).

The full RFAs are available on the DaCCoTA website.  
*Letter of Intent deadline: October 21, 2022*

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**DoD: Minerva Research Initiative – Social Science Research**

The Office of the Secretary of Defense (OSD) is interested in receiving proposals for the [Minerva Research Initiative](#), a university-led defense social science program seeking fundamental understanding of the social and cultural forces shaping U.S. strategic interests globally.

Minerva aims to improve DoD's basic understanding of the social, cultural, behavioral, and political forces that shape regions of the world of strategic importance to the U.S. The research program seeks to:

- Leverage and focus the resources of the Nation's top universities;
- define and develop foundational knowledge about sources of present and future conflict with an eye toward better understanding of the political trajectories of key regions of the world; and
• improve the ability of DoD to develop cutting-edge social science research, foreign area and interdisciplinary studies, that is developed and vetted by the best scholars in these fields.

Deadline: February 9, 2023

DOE: Industrial Efficiency and Decarbonization – 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 IED: DOE concept papers are due October 12, 2022; 4pm. Notify RCA if you are interested in submitting to this program. Approval to submit will be given to the first to notify.

The research, development, and demonstration (RD&D) activities to be funded under this Funding Opportunity Announcement (FOA) [DE-FOA-0002804] will support the government-wide approach to the climate crisis by driving the innovation that can lead to the deployment of clean energy technologies, which are critical for climate protection. Specifically, this FOA will fund high-impact, applied research and development and prototype or pilot-scale technology validation and demonstration projects in order to expedite the adoption of transformational industrial technology necessary to increase energy efficiency across industry and in high GHG-emitting industrial subsectors, reducing both energy usage and GHG emissions. This includes cross-sector industrial decarbonization approaches via opportunities in energy efficiency; industrial electrification; low carbon fuels, feedstocks and energy sources; and industrial carbon capture and utilization. Topic areas to be considered:

• Decarbonizing Chemicals
• Decarbonizing Iron and Steel
• Decarbonizing Food and Beverage Products
• Decarbonizing Cement and Concrete
ND EPSCoR: STEM Research and Education – NDSU specific announcement

The ND EPSCoR State Office’s mission is to support efforts of participating institutions of higher education across the state that result in increased STEM research capacity and competitiveness; a stronger STEM pathway that produces our next generation workforce, educators, and researchers; and an informed citizenry that values the STEM ecosystem and economy. Thus, the NDSU campus of ND EPSCoR is now accepting proposals to fund STEM activities. For details, see the Request for Proposals.

See all ND EPSCoR opportunities here.

Deadline: October 27, 2022; 12pm (noon)

NEH: Digital Humanities Advancement Grant

The Digital Humanities Advancement Grants program (DHAG) supports innovative, experimental, and/or computationally challenging digital projects, leading to work that can scale to enhance scholarly research, teaching, and public programming in the humanities.

Optional draft due: November 4, 2022
Proposal deadline: January 12, 2023

NIH: Bioengineering Research Grants (BRG) (R01 Clinical Trial Not Allowed)

The purpose of this funding opportunity announcement [PAR-22-242] is to encourage collaborations between life science and physical science that:
1. apply a multidisciplinary bioengineering approach to solve biomedical problems; 
and
2. develop, integrate, optimize, validate, translate or accelerate adoption of 
promising tools, methods and techniques:
   a. that fulfill an unmet need and address specific research or clinical problem 
in basic, translational, and/or clinical science and practice,
   b. capable of enhancing our understanding of health and disease, and / or
   c. improve practice of medicine.

Applications may propose design-directed, developmental, discovery-driven, or 
hypothesis-driven research, and this FOA is appropriate for small teams applying an 
integrative approach to increase our understanding of and solve problems in biological, 
clinical or translational science.

Upcoming deadlines: October 31, 2022; February 5, 2023

NIH: Time-Sensitive Opportunities for Health Research (R61/R33 
Clinical Trial Not Allowed)
This Funding Opportunity Announcement (FOA) [PAR-22-233] establishes an accelerated 
review/award process to support research to understand health outcomes related to an 
unexpected and / or time-sensitive event (e.g., emergent environmental threat; 
pandemic; change in local, state, or national policy; natural disaster). Applications in 
response to this FOA must demonstrate that the research proposed is time-sensitive and 
must be initiated with minimum delay due to a limited window of opportunity to collect 
baseline data, answer key research questions, and / or prospectively evaluate a new 
policy or program. This FOA is intended to support opportunities in which empirical study 
could only be available through expedited review and funding, necessitating a 
substantially shorter process than the typical NIH grant review / award cycle.

Applications will be accepted on a rolling basis, beginning November 1, 2022

NSF: Environmental Engineering
The goal of the Environmental Engineering program [PD 20-1440] is to support potentially transformative fundamental research that applies scientific and engineering principles to

1. prevent, minimize, or re-use solid, liquid, and gaseous discharges of pollution to soil, water, and air by closing resource loops or through other measures;
2. mitigate the ecological and human-health impacts of such releases by smart / adaptive / reactive amendments or manipulation of the environment, and
3. remediate polluted environments through engineered chemical, biological, and / or geo-physical processes.

Integral to achieving these goals is a fundamental understanding of the transport and biogeochemical reactivity of pollutants in the environment. Therefore, research on environmental micro / biology, environmental chemistry, and environmental geophysics may be relevant providing the research has a clear objective of protecting human and ecological health.

Major areas of interest include (but are not limited to):

- Building a future without pollution or waste.
- Sustainable supply and protection of water.
- Environmental chemistry, fate, and transport of nutrients and contaminants of emerging concern in air, water, soils, and sediments.
- Environmental engineering of the built environment.

Proposals are accepted anytime

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- Environmental engineering of the built environment.

Proposals are accepted anytime

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**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 October 20, 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.

**NSF: Science and Technology Studies**

Science and Technology Studies (STS) is an interdisciplinary field that investigates the conceptual foundations, historical developments and social contexts of science, technology, engineering and mathematics (STEM), including medical science. The STS program [NSF 22-629](#) supports proposals across a broad spectrum of research that uses historical, philosophical and social scientific methods to investigate STEM theory and practice. STS research may be empirical or conceptual; specifically, it may focus on the intellectual, material or social facets of STEM including interdisciplinary studies of ethics, equity, governance and policy issues.

*Deadline: February 2, 2023*
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 Cybertraining: Notify RCA by October 20, 5:00 p.m., if you are interested in submitting to this program.

The goals of this solicitation are to

i. ensure broad adoption of cyberinfrastructure (CI) tools, methods, and resources by the research community in order to catalyze major research advances and to enhance researchers’ abilities to lead the development of new CI;

ii. integrate core literacy and discipline-appropriate advanced skills in advanced CI as well as computational and data-driven methods for advancing fundamental research, into the Nation’s undergraduate and graduate educational curriculum/instructional materials; and

iii. build communities of research CI professional staff to deploy, manage, and collaboratively support the effective use of research CI, as well as establish career paths for those staff within and across institutions and science and engineering (S&E) disciplines.

Proposals responding to the Pilot and Implementation project classes defined in this solicitation may target one or both of the first two solicitation goals, while proposals responding to the CIP project class must address the third goal. For the purpose of this solicitation, advanced CI is broadly defined as the set of resources, tools, methods, and services for advanced computation, large-scale data handling and analytics, and networking and security for large-scale systems that collectively enable potentially transformative fundamental S&E research and education.

LIMITED SUBMISSION: There are no restrictions or limits on Pilot or Implementation proposals. Institutions are limited to one CIP proposal per CyberTraining program competition.
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.