

July 18, 2022

NDSU pancreatic cancer research center receives phase 2 funding from NIH

The NDSU Center for Diagnostic and Therapeutic Strategies in Pancreatic Cancer ([CDTSPC](#)) has received Phase 2 funding from the National Institutes of Health (NIH). As a Center of Biomedical Research Excellence (COBRE), the CDTSPC is focused on developing early detection and therapeutic protocols for controlling pancreatic cancer.

This award will allow the Center to build upon a previous Phase 1 award, which funded the CDTSPC during the past five years. Phase 2 will provide nearly \$2 million annually for the next five years, for a total of \$9.7 million.

Sanku Mallik, NDSU professor of pharmaceutical sciences, is the director of the CDTSPC and Sathish Venkatachalem, NDSU associate professor of pharmaceutical sciences, is co-director. By design, COBREs support junior investigators interested in pursuing research in a specific area and provide mentoring from experienced researchers. The CDTSPC has already provided opportunities for researchers across various disciplines, including pharmaceutical sciences, chemistry and biochemistry, coatings and polymeric materials,



CDTSPC co-directors Sathish Venkatachalem, PhD and Sanku Mallik, PhD

biological sciences, physics, and public health.

[Learn more >>](#)



The Research and Creative Activity Office is seeking to grow our success in USDA grant proposals. To this end, we seek expressions of interest in two pilot programs:

- **USDA-AFRI pre-submission proposal review**

- **Creating a USDA Expert Bank**

Pilot Program 1: USDA-AFRI pre-submission proposal review

The Research and Creative Activity Office is coordinating an internal proposal review opportunity for up to 5 proposals being submitted to 2022 USDA-AFRI programs. Dr. Joel Caton, PhD, Engberg endowed professor of animal sciences and recent IPA National Program Leader for the USDA-NIFA Institute of Food Production and Sustainability and the Division of Animal Sciences will be leading the reviews. The internal review will include proposal assessment using the AFRI Request For Applications and stated program review criteria.

PIs planning to submit to USDA-AFRI for upcoming Fall 2022 deadlines ([see below](#)) who ideally will commit to having a near final draft (including all required proposal elements) of the proposal ready for review **3 weeks prior to the deadline** should apply [here](#).

Space is limited. Only one review per PI.

Pilot Program 2: Creating a USDA Expert Bank

With Dr. Caton's return from his position as an IPA National Program Leader for USDA-NIFA, NDSU has an opportunity to leverage his skills together with other campus experts to create a USDA Expert Bank as a campus resource. Our campus expertise areas mean that many have served on multiple panels at USDA. We are seeking volunteers willing to

share that expertise as reviewers for pre-submission proposals, coordinated by RCA. Interested volunteers should have served on at least 2 panels within the last 5 years, be willing to provide a detailed read and review of near final full proposal drafts for PIs who commit to completing these on the proposed timeline. Volunteers should sign up [here](#). For questions about these pilot programs, please contact ndsuh.researchdev@ndsuh.edu.

NDSU Undergraduate Biomedical Research Program

Faculty interested in hiring an undergraduate researcher for the 2022-2023 academic year on a **biomedical-related research project** are invited to submit an application to the NDSU Undergraduate Biomedical Research Program. If awarded, faculty will be responsible for advertising and hiring the student and managing the undergraduate project budget. Up to two applications per PI are allowed.



Budget:

Funds will include \$4500 for student salary. This is for an hourly rate of \$15 and 10 hours per week. Funds will also include associated fringe benefits and a materials / supplies budget of \$1,000 for the undergraduate project.

Project Dates:

Project start is September 1, 2022. The end date is April 30, 2023. No extensions are allowed on these funds.

To apply, please complete an application [here](#). The application deadline is August 8, 2022.

If you have questions, please contact Kirstin Saulsbury at

kirstin.saulsbury@ndsu.edu.

The NDSU Undergraduate Biomedical Research Program is organized by the NDSU Office for Research and Creative Activity and is funded through the National Institutes of Health INBRE program.

Grants.gov Unavailable September 23-29, 2022

Grants.gov is planning a migration to the cloud September 23-29 and will be unavailable to users during this time. Please keep this in mind when planning for proposal submissions during September and October.

Submissions of all new IBC protocols will be required to use Novelution as of September 1, 2022



The Institutional Biosafety Committee (IBC) Module in Novelution is live for protocol submissions and highly encouraged. For more information, visit the [Novelution webpage](#). Contact the IBC Office by phone [231-8908] or email Amanda Wilkinson [amanda.wilkinson@ndsu.edu] with any questions.

NIH Data Management and Sharing Policy Effective January 25

The NIH Data Management and Sharing (DMS) policy takes effect in January 2023 and there are several ways that you can prepare now. This policy will impact resources needed for NIH projects, how data is stored, when data is shared, and present additional reporting requirements.

Free webinars are available directly from NIH Office of Science Policy and Office of Extramural Research to learn more about the DMS.

- Webinar I: [Understanding the New NIH Data Management and Sharing Policy](#)
Thursday, August 11, 2022; 12:30-2:30
- Webinar II: [Diving Deeper into the New NIH Data Management and Sharing Policy](#)
Thursday, September 22, 2022; 12:30-2:30 EDT

The Council On Governmental Relations (COGR) also has some excellent resources on the DMS.

- [COGR's NIH DMS Readiness Guide](#)
- [COGR's resource page](#)



July Issue: Research Development & Grant Writing News

The July 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:

- Newly Titled NSF Program Offers Humanities / Social Science Researchers Opportunities to Collaborate
- Narrative Space Is Limited-Use It Wisely
- What does NSF mean by Innovation Ecosystem?
- USDA / NIFA Proposal Workplan Template—A Generic Guide to Writing A Funded Proposal
- Changes Coming to STEM Education Programs

Upcoming Events

- **REGISTRATION OPEN: AICoRN Summit & DaCCoTA Symposium**
August 4-5, 2022 / [Learn more >>](#)
- **SAVE THE DATE: Summer Undergraduate Research Programs Poster Session**
August 5, 2022; 10am-12pm / A.Glenn Hill Center
- **Webinar: Understanding the New NIH Data Management and Sharing Policy**
August 11, 2022; 12:30-2:30pm / [Learn more >>](#)
- **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 >>](#)

FUNDING OPPORTUNITIES

- [American Philosophical Society: Franklin Research Grants](#)
- [DARPA: Smart Non-invasive Assays of Physiology](#)
- [FFAR: Increasing Adoption of Conservation Practices](#)
- [ND EPSCoR: Seed Grants](#)
- [NIH: Modern Equipment for Shared-use Biomedical Research Facilities – LIMITED](#)
- [NIH: Preventing Opioid Misuse and Co-Occurring Conditions by Intervening on Social Determinants](#)
- [NSF: Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences](#)
- [NSF: Mathematical Biology](#)
- [NSF: Partnership to Advance Conservation Science and Practice](#)
- [RWJF: Policy Research to Close the Racial Wealth Gap](#)
- [USDA-AFRI: Education and Workforce Development](#)
- [USDA-AFRI: Foundational and Applied Science](#)

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 ndsuh.researchdev@ndsuh.edu.

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

- [NSF: Louis Stokes Alliances for Minority Participation - STEM Pathways Implementation-Only](#)
Notification Deadline: 07/20/2022
- [NIH: Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations](#)
Notification Deadline: 08/04/2022
- [NIH: Collaborative Program Grant for Multidisciplinary Teams](#)
Notification Deadline: 09/15/2022
- [NSF: Scholarships in STEM \(S-STEM\) Program](#)
Notification Deadline: 09/15/2022

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 ndsuh.researchdev@ndsuh.edu.

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.

American Philosophical Society: Franklin Research Grants

The [Franklin program](#) is particularly designed to help meet the costs of travel to libraries and archives for research purposes; the purchase of microfilm, photocopies, or equivalent research materials; the costs associated with fieldwork; or laboratory research expenses.

Franklin grants are made for noncommercial research. They are not intended to meet the expenses of attending conferences or the costs of publication. The Society does not pay overhead or indirect costs to any institution, and grant funds are not to be used to pay income tax on the award. Grants will not be made to replace salary during a leave of absence or earnings from summer teaching; pay living expenses while working at home; cover the costs of consultants or research assistants; or purchase permanent equipment such as computers, cameras, tape recorders, or laboratory apparatus.

Upcoming deadlines: October 3 and December 1, 2022

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DARPA: Smart Non-invasive Assays of Physiology

The Smart Non-invasive Assays of Physiology (SNAP) program [[HR001122S0044](#)] aims to develop a portable, multi-omic, multiplexed sensor prototype capable of implementing models that assess warfighter physiological states based on molecular biomarkers. SNAP will be rapidly adaptable to diverse DoD end user needs for readiness assessment and training, providing warfighters with a personalized view into their performance state. Recent research demonstrates that bodily fluids such as saliva carry signatures of physiological states in both health and disease, and in particular, physical and cognitive exertion. Ultimately, models of readiness or other physiological states will require point-of-person tools to process samples, analyze different classes of biomarkers in a single device, and implement these predictive models in real-world settings and on operationally relevant time frames.

FFAR: Achieving Conservation through Targeting Information, Outreach, and Networking

The [Foundation for Food & Agriculture Research](#) (FFAR) and the [Walton Family Foundation](#) launched the [Achieving Conservation through Targeting Information, Outreach and Networking](#) (ACTION) program to develop innovative research that increases adoption of conservation practices. The program includes a collaboration with the [National Fish and Wildlife Foundation](#) that can provide additional support for practice implementation costs associated with opportunities developed through awarded projects.

Edge-of-field is a conservation practice that allows for nutrient and sediment monitoring in water runoff at the field level. Despite the potential benefits of edge-of-field and other conservation practices to soil and watershed health, implementation occurs on less than 10% of all US croplands. The reasons for the low adoption rates remain unclear.

Coordinated efforts that engage farmers from the beginning could help researchers understand farmers' specific needs and develop interventions that specifically target those needs.

Through the ACTION program, FFAR and the Walton Family Foundation seek projects that increase farmer and landowner adoption of conservation practices and provide a range of ecosystem benefits, including water quality improvements.

FFAR and the Walton Family Foundation anticipate awarding grants ranging from \$200,000 to \$500,000 for a total of approximately \$1 million through this program. Projects that support the [Edge of Field Roadmap](#) and commit to implementing conservation practices through a partnership with the National Fish and Wildlife Foundation will be prioritized.

Pre-application deadline: August 31, 2022

ND EPSCoR: Seed Grants

ND EPSCoR seeks to provide emerging areas seed awards of up to \$25,000 in direct costs to researchers from the National Science Foundation (NSF) Established Program to Stimulate Competitive Research (EPSCoR) RII Track-1 New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES) participating institutions in areas of emerging high impact and transformative research related to the Center for Cellular Biointerfaces in Science and Engineering (CCBSE). More information can be found on the [CCBSE webpage](#) on the ND EPSCoR website.

Applications must be made by a researcher from Cankdeska Cikana Community College (CCCC), Dickinson State University (DSU), Mayville State University (MaSU), Minot State University (MiSU), Nueta Hidatsa Sahnish College (NHSC), **North Dakota State University (NDSU)**, Sitting Bull College (SBC), Turtle Mountain Community College (TMCC), University of North Dakota (UND), and Valley City State University (VCSU) **who is not currently associated with the 2020-2025 ND-ACES cooperative agreement or who did not receive a 2021 or 2022 ND-ACES emerging seed award**. Members of traditionally underrepresented populations in STEM disciplines are especially encouraged to apply. See the [Request For Applications](#) for details.

Deadline: Noon on September 1, 2022

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NIH: HEAL Initiative: Preventing Opioid Misuse and Co-Occurring Conditions by Intervening on Social Determinants (R01 - Clinical Trials Optional)

Through the [HEAL Initiative](#), NIH requests applications [[RFA-DA-23-051](#)] for studies designed to develop and test sustainable, scalable interventions to prevent opioid misuse, opioid use disorder, and co-occurring mental health conditions by intervening directly on social determinants of health (SDOH). This initiative aims to build an evidence base for preventive interventions that address inequities, social risks and / or social disadvantage. Interventions targeting social determinants may be structural (e.g. policy, regulatory, or systemic-wide changes) or designed to alter outcomes of individuals affected by contextual risk factors, and may be implemented in conjunction with psychosocial interventions designed to address behavioral risks.

NIH: Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations (R24 Clinical Trials Not Allowed) – Limited Submission Program

Limited submission grant programs are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

NIH Equipment: Notify RCA by 08/04/2022, 4pm, if you are interested in submitting to this program.

This Funding Opportunity Announcement (FOA) [PAR-22-190] invites qualified academic or research institutions to apply for funding support to purchase advanced equipment that will enhance and modernize research-supporting operations of biomedical research facilities. Targeted are laboratory research core facilities, animal research facilities, and other similar shared-use research spaces. The goal of this FOA is to strengthen research-auxiliary activities of biomedical research facilities and to enhance the efficiency of their operations.

The FOA does not support the purchase of scientific research instruments or their components, nor components of building-level infrastructure equipment that indirectly support research activities.

LIMITED SUBMISSION: Only one application per institution is allowed.

NSF: Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences (CDS&E-MSS)

The CDS&E-MSS program [[PD 22-8069](#)] accepts proposals that engage with the mathematical and statistical challenges presented by (1) the ever-expanding role of computational experimentation, modeling, and simulation on the one hand, and (2) the explosion in production and analysis of digital data from experimental and observational sources on the other. The goal of the program is to promote the creation and development of the next generation of mathematical and statistical software tools, and the theory underpinning those tools, that will be essential for addressing these challenges.

The research supported by the CDS&E-MSS program will aim to advance mathematics or statistics in a significant way and will address computational or big-data challenges. Proposals of interest to the program must include a Principal Investigator or co-Principal Investigator who is a researcher in an area supported by the Division of Mathematical Sciences. The program welcomes submission of proposals that include multidisciplinary collaborations or provide opportunities for training through research involvement of junior mathematicians or statisticians. This program is part of the wider NSF [Computational and Data-enabled Science and Engineering \(CDS&E\) enterprise](#).

Full proposals accepted anytime.

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NSF: Mathematical Biology

The Mathematical Biology Program [[PD 22-7334](#)] supports research in areas of applied and computational mathematics with relevance to the biological sciences. Successful proposals must demonstrate mathematical innovation, biological relevance and significance, and strong integration between mathematics and biology.

Some projects of interest to the Mathematical Biology Program may include development of mathematical concepts and tools traditionally seen in other disciplinary programs within the Division of Mathematical Sciences, e.g., topology, probability, statistics, computational mathematics, etc. In general, if a proposal is appropriate for review by more than one NSF program, it is advisable to contact the program officers handling each

program to determine when and where the proposal should be submitted and to facilitate the review process.

Full proposals accepted anytime.



NSF: Partnership to Advance Conservation Science and Practice (PACSP)

The National Science Foundation (NSF) and the Paul G. Allen Family Foundation are partnering to support a new program [[NSF 22-613](#)], to be administered by NSF, that will support conservation science and science-informed conservation practice in the United States. The objective of the PACSP Program is to support conservation research that investigates organismal biology, ecology, and / or evolution and is designed to contribute to the development and implementation of evidence-based activities and / or technology solutions to advance biodiversity conservation. This program seeks proposals that involve the implementation of conservation activities with academic-conservation organization partnerships. The strongest projects will involve ongoing assessment of biodiversity outcomes, for instance via an adaptive management framework, that inform both scientific understanding and conservation actions. A significant distinction between the PACSP program and other NSF programs is that proposals to this program must make clear and well-defined connections between basic research questions and the implementation of conservation focused actions.

The Program's focus is on conservation goal-related research that will directly translate to on-the-ground biodiversity conservation efforts. Proposals that adopt a convergent approach between climate change, conservation, and the health of ecosystems and the organisms therein are especially encouraged. Proposals are also expected to incorporate project outcomes within the context of broader societal impacts and, as appropriate for the research proposed, engage non-academic partners in collaboration.

Deadline: October 11, 2022



RWJF: Policy Research to Close the Racial Wealth Gap

The Robert Wood Johnson Foundation (RWJF) [Policies for Action program](#) is seeking proposals to research policies with the potential to significantly improve the financial wellbeing and economic security of families and communities that have been systematically shoved to the margins, unable to enjoy a fair and just opportunity to be healthy.

Up to \$2.5 million is available for research that could enable communities and families of color to dream, invest in, and design an inclusive economy and build generational wealth. RWJF welcomes applications from community-led or community-partnered research teams from diverse backgrounds and a wide range of disciplines.

[Read the full request for applications >>](#)

Register for an informational [applicant webinar](#) on July 26 for an overview and answers to questions.

Deadline: September 7, 2022; 2pm

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USDA-NIFA-AFRI: Education and Workforce Development

The Agriculture and Food Research Initiative (AFRI) - Education and Workforce Development ([EWD](#)) program 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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USDA-NIFA-AFRI: 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;
2. Animal Health and Production and Animal 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.

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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.

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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.