Invigoration

The beautiful weather of early summer in North Dakota provides us with an opportunity to reinvigorate and refocus ourselves on a productive summer, whether it be engaging undergraduates in research, advancing one's research agenda, or exposing K-12 students to the wonders of science, technology, engineering, and mathematics (STEM).

Summer is a time for both planning and activities for the Nurturing American Tribal Undergraduate Research and Education (NATURE) program. NATURE aims to improve STEM education among middle school, high school, and tribal college students. Again, this summer, each tribal college will host their local middle and high school students for a STEM-focused experience during the Tribal College Summer Camp.

While NATURE Sunday Academy occurs during the academic year, the planning occurs in June of each year. This month staff, secondary educators, and faculty members from around the state met to plan and demonstrate STEM activities that will be offered to middle school and high school students during the 2022-2023 school year (pictured below). You can read more about their efforts on page four of this issue.

June also means that students are beginning their internships through the Students in Technology Transfer And Research (STTAR) program. The STTAR program provides upper-division students (i.e., juniors through graduate students) in science, technology, engineering, and mathematics with an opportunity to use their academic training and experience to address challenging science and technology-based problems faced by North Dakota companies. You can read more about the STTAR program as we wish the 2022 interns well on page two of this issue.

Next month, ND-ACES: New Discoveries in the Advanced Interface of Computation, Engineering, and Science, ND EPSCoR's most recent NSF RII Track-1 cooperative agreement, begins its third year of research and outreach. Heading into year three, the mission of the ND-ACES cooperative agreement is to continue to collectively contribute to cancer research within the Center for Cellular Biointerfaces in Science and Engineering (CCBSE) in ways that have state, regional, and national impacts. The CCBSE is integrated with PROSPER (PROmoting Sustainable Partnerships in Education and Research), the broadening participation arm of ND-ACES, dedicated to training a STEM workforce and informing the public, which will lead to future efforts focused on new therapeutic solutions for cancer patients. Both the research and outreach efforts will continue through the summer.

The filming of our STEM at Home series also continues this summer with a variety of new experiments. Beginning in the spring of 2021, the STEM at Home video series was developed to bring fun STEM projects to families at home via our YouTube channel. The ND EPSCoR State Office is collecting and sharing simple and fun projects for young students to help teach important critical thinking skills and potentially spark a lifetime interest in STEM.

As we head into summer, the impact of these efforts across our state is substantial. We look forward to the beautiful weather and added benefits of a season of invigoration. I hope that you are, and will continue to be, well.

Regards,
Kelly A. Rusch, Ph.D., P.E., BCEE
Executive Director
ND EPSCoR State Office

Ten years of students successful in Posters on the Hill

Since 2009, 10 students working with **Mikhail Bobylev** (Minot State University, pictured right) have successfully participated in the Council for Undergraduate Research's annual Posters on the Hill event. Posters on the Hill is an advocacy event that showcases undergraduate research by connecting with members of Congress about interesting and important research going on across the country. Bobylev's students have received funding, in part, from the ND EPSCoR RII Track-1 cooperative agreements to conduct research. Bobylev is an ND-ACES Materials Design at Biointerfaces Pillar researcher.

"There are many different benefits, the first and the most obvious benefit is that when students participate in undergraduate research, they actually understand the subject much better. It's one thing when you just learn organic chemistry from the textbook and then prepare for the tests, but if you do research and do something with your own hands in real life and apply all your knowledge, then you understand the subject much, much, much better," noted Bobylev.

Through Posters on the Hill, Bobylev's students discuss with legislators why scientific research matters and why the regulatory issues are important.

"Another benefit is that you need to present and this a separate art. Presenting science is not simple," said Bobylev. "If you're talking about science, you really need to talk in such a way that both people who know the chemistry and those who don't know should understand, so we have a different approach to different people and different versions of the same presentation."

Congratulations to Daniela Nardelli (Minot State University), who is Bobylev's 10th student to present at the Posters on the Hill. Nardelli is one of just 60 participants, selected by the Council for Undergraduate Research from hundreds of applicants from around the country. Congratulations to all of the students from Dr. Bobylev's lab who have been selected over the past 13 years.

2022 ND EPSCoR State Office STTAR internships begin

The ND EPSCoR State Office recently kicked off another season of internships through the STTAR program. We will be featuring a Q&A series from our participating companies beginning this month with **Renuvix** and **Tau Drones**. This year, 12 companies hired students from across North Dakota. Twenty-six students who represent six separate colleges are participating in the 2022 STTAR program as interns – the highest number since 2013.

The STTAR program provides juniors, seniors, and graduate students who are majoring in STEM disciplines a valuable opportunity to apply their academic training and experience in order to address science and technology-based problems faced by ND companies. The internships, which take place over a minimum of eight weeks, are supported by a cost-sharing agreement between the ND EPSCoR State Office and our industry partners.

Q. Tell us about your company.

A. Renuvix is a technology company with a unique set of patented and patent-pending technologies with significant performance advantages over other technologies currently on the market. Renuvix has broad and extensive industrial and research experience in sustainable product and process development and manufacturing.

Renuvix products are safe renewable alternatives for petroleum-based materials used in various industries.

The company is developing new safer products for high-volume industrial applications as well as looking for new applications for existing products.

**Q.** What are the benefits of having STTAR interns (to your company and the student)?

A. The STTAR program offers a mutual benefit to both our company and the summer interns. As a small technology team, we are limited in resources that we can put toward the new product development and the exploration of new technologies. The STTAR program is aimed to challenge ND students to use their academic training in solving science and technology-related problems for North Dakota technology companies thus maximizing our potential for success.

Also, summer interns provide significant help in completing tasks and accomplishing project goals on time. Often students show great professional performance without or with minimal supervision.

On the other hand, interns get an opportunity to learn and gain hands-on experience in their desired field. The STTAR internship program benefits the interns' future employment, as employers are much more likely to hire graduates with internship experience over students who just have a college degree.

Q. During their internship what will the students be working on?

A. The Research Scientist Intern, **Jasmine Kostelecky** (NDSU, pictured below) is working on the synthesis and characterization of new products from agriculturally derived raw materials for application in degradable coatings. The major focus of this research and development is on controlled biodegradability (microbial breakdown) for various types of polymers
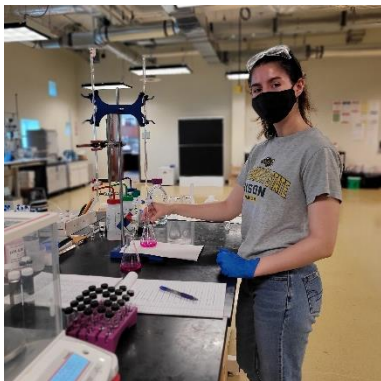
derived from sugar and plant oils. Also, Kostelecky is performing laboratory syntheses of new products and product quality control.

Q. Have you partnered with the ND EPSCoR STTAR program before (if not, how did you hear about it)? What are the benefits of this partnership?

A. Yes, Renuvix has partnered with the ND EPSCoR STTAR in the past.

Q. Tell us about your company.

A. Tau Drones is an energy analytics company founded in 2021 from the University of North Dakota (UND). Tau Drones focusses on helping its customers make strategic decisions for their maintenance needs utilizing artificial intelligence (AI) and unmanned aerial systems (UAS). Tau Drones builds the energy & emission profiles of building facades and visualizes the results to their customers using advanced analytics.

Q. What are the benefits of having STTAR interns (to your company and the student)?

A. Tau Drones is a new startup that is heavily focused on product development & design, and having capable interns is an invaluable asset. The interns contribute by formulating & designing systems that would help us increase the current capabilities of our products. These students, being as capable as they are, also serve as potential future employees. From the perspective of the students, they get a chance to actually design a system that would be implemented in real-life and if nothing else, a source of glowing recommendation letters!

Q. During their internship what will the students be working on?

A. The STTAR program has helped Tau Drones fund three graduate-level students from the University of North Dakota.

Anton Skurdal: Anton is a Masters of Science candidate in Data Science from UND College of Engineering & Mines. He is a fantastic individual who is highly capable in full-stack software development and data analytic routines. Anton

Skurdal and Mouedden working in the field as interns at Tau Drones.

is contributing to Tau Drones' customer asset management technology with a heavy focus on customer dashboard design using a python-based

toolkit. The dashboard being designed by Anton will host and visualize actionable data and change the way Tau interacts with it's customers.

Nadia Mouedden: Nadia is a Ph.D. candidate in Petroleum Engineering from UND College of Engineering & Mines. Nadia is an innovative & business-savvy individual who has deep understanding of energy systems. Nadia is helping lay the foundation of a physics-based recommendation system for Tau Drones which will help convert engineering information into business insights. The system which will be designed by Nadia would be an important value-addition to Tau's analytics capabilities by helping customers better understand actions that would lead to the highest return on investment.

Anai Caparo Bellido (pictured right): Anai is a Ph.D. student at the Earth System Science & Policy program from UND School of Aerospace. Anai is skilled in R&D methodologies and is an expert in remote sensing technologies such as UAS. Anai is helping Tau Drones improve its data capturing technology by delineating the best way to incorporate remote sensing advancements in Tau's methodologies. Anai utilizes the techniques used in various satellite and UAS captured data and checks their capabilities with Tau's systems.

Q. Have you partnered with the ND EPSCoR STTAR program before (if not, how did you hear about it)? What are the benefits of this partnership?

A. No, this is our first time partnering with the ND EPSCoR STTAR program. We first heard about this program through the UND Center for Innovation. The UND Center for Innovation has done a great job of connecting startups with various opportunities.

We wish the 2022 STTAR student interns well as they begin their internships! You can learn more about the STTAR program on our program webpage or contact the ND EPSCoR STEM Grant Writer & Program Manager, Josh Wayt.

Congratulations Eric Exner

Eric Exner (pictured right), the ND EPSCoR State Office Business Manager is the new Director of the Agriculture Shared Service Center at South Dakota State University. Before working at ND EPSCoR, Exner held various accounting positions over the past two decades. In his new role at South Dakota State University, Exner will be responsible for managing the operational functions of the College of Agriculture, Food & Environmental Sciences, Agricultural Experiment Station, SDSU Extension, and the Animal Disease, Research & Diagnostic Laboratory. Congratulations!

NATURE program updates
By: **Raymond Burns**, ND EPSCoR State Office Tribal Partnerships Manager

For over 20 years, the NATURE program has been reaching into tribal communities in North Dakota to offer pathways for tribal students from the middle/high school sector and from the Tribal Colleges and Universities (TCUs) into STEM careers and education. NATURE recognizes the need for students from reservations to have opportunities to gain knowledge of STEM education.

Consisting of four components, NATURE has had unprecedented success in reaching those aspirational goals. The four components are designed to reach students as early as possible and then provide access and opportunity in STEM fields throughout the educational career. The Summer Camps at the TCUs and the Sunday Academy program provide welcome opportunities for middle school and high school students from reservation communities to have access to STEM-related activities that otherwise might not be available. The Bridge Camp provides high school seniors with access to the expectations of a college setting as they begin that transition from high school to college. The University Summer Camp provides opportunities for TCU STEM students to work in laboratory and research settings on the NDSU and UND campuses to expose them to the rigors and opportunities at a larger research university setting as well as expand their knowledge of the STEM field that interests them.

In addition to the student component of NATURE, every summer TCU NATURE Coordinators, TCU staff, and secondary educators from tribal communities gather at NDSU to create the informal STEM activities that will take place within each NATURE component throughout the next year. This gathering also provides them the opportunity to interact with their peers from research universities to not only help with the NATURE curriculum but to create a bridge of understanding and communication between the TCU and research university faculty about the particular challenges of teaching in a STEM field within a tribal community.
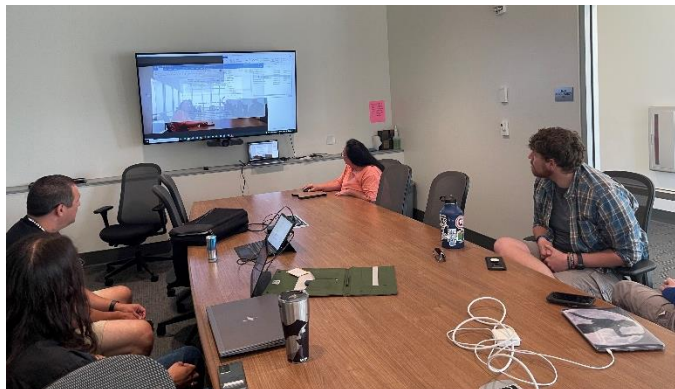
*Corey Morin, Sarah Morin, **Austin Allard** (TMCC), **Jody DeLong** (TMCC), **Lori Gourneau** (CCCC), and **Mafany Ndiva Mongoh** (SBC) attend a NATURE planning meeting.*

Through NATURE, ND EPSCoR provides a vital component in the success of tribal students in the STEM fields. Here's looking at the next 20+ years as we continue to grow and adapt to meet the needs of the tribal communities.

The STEM at Home video series continues

Our STEM at Home series is a video-based learning series that creates fun content centered on projects which incorporate STEM. These simple projects allow younger audiences to use critical thinking skills and potentially spark a lifetime interest in STEM.

Each video in this series is accompanied by a list of simple materials and goes through a step-by-step process for completing the project successfully. We hope to create a fun and easy way for families to engage in STEM projects through this video series. This month, our video is Storm in a Glass.

Get the complete shopping list for the STEM at Home activity here.

Subscribe to our YouTube channel and visit our STEM activities page for shopping lists. You can also see our STEM Education Portal and NATURE Sunday Academy pages for more activities and lesson plans that strengthen the STEM pathway for students across ND.

CIRCLES Alliance survey and interview opportunities

In October 2020, the ND EPSCoR State Office joined five other EPSCoR states (Idaho, Montana, New Mexico, South Dakota, and Wyoming) in a National Science Foundation-funded collaborative research project that forms an Alliance to connect with tribal community members within those states to gain a better understanding of each community's definition and perspective of STEM (science, technology, engineering, and mathematics). Initially, Alliance members planned to visit each tribal community, but with the COVID pandemic continuing, the Alliance has decided to continue to make virtual connections.

Using a common set of questions across the six-state CIRCLES (Cultivating Indigenous Research Communities for Leadership in Education and STEM) Alliance, participants input is being gathered through virtual interviews over Zoom or through an online survey with tribal community stakeholders to gain their perspective on how Indigenous based STEM education is currently being incorporated or might be incorporated in the future, to support student STEM learning. To participate in an interview or survey, you must be 18 years or older.

The ND EPSCoR State Office has created a link to a 90-second video that describes these efforts. The anonymous online survey is available at this link. Additionally, ND EPSCoR is conducting individual virtual interviews. If you would prefer to participate in an

individual interview, please contact ND EPSCoR at ndepscor@ndus.edu, or call 701-231-8400.

This effort aims to foster better connections with tribal communities and support STEM educational programming. Working toward that goal, the ND EPSCoR State Office humbly requests your assistance in completing this survey or contacting us to set up a virtual interview. The CIRCLES Alliance believes this is a particularly poignant time to reflect on observations regarding Indigenous based STEM education as the COVID pandemic has brought some new challenges into focus. Learn more about the North Dakota CIRCLES effort here.

Events and trainings

Responsible Conduct of Research (RCR)

RCR training is available upon request to augment initial campus or Collaborative Institutional Training Initiative (CITI) RCR trainings. Please get in touch with ND EPSCoR to schedule.

Funding opportunities

Funding Opportunities come from three sources:
1. The National Science Foundation (NSF)-funded New Discoveries at the Advanced Interface of Computation, Engineering, and Science (ND-ACES) RII Track-1 cooperative agreement, which consists of two broad components: 1) Center for Cellular Biointerfaces in Science and Engineering (CCBSE), which consists of three research pillars: materials design, cellular systems, and computational approaches and 2) PROmoting Sustainable Partnerships in Education and Research (PROSPER), which consists of four connected project elements: education and workforce development, broadening participation, partnerships and collaborations, and communication and dissemination.
2. ND EPSCoR State Office
3. EPSCoR and EPSCoR-like federal funding agencies, which include: Department of Energy (DOE), National Aeronautics and Space Administration (NASA), National Institutes of Health (NIH), NSF, U.S. Department of Agriculture (USDA), and Department of Defense (DoD).

Graduate Student Cyberinfrastructure Assistantship Program (UND Announcement Only)

ND EPSCoR's New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES) Graduate Student Cyberinfrastructure (CI) Assistantship program is designed to (1) increase student understanding of advanced research computing in hardware and software as it relates to their discipline; (2) provide additional support to faculty in the Center for Cellular Biointerfaces in Science and Engineering (CCBSE); and (3) provide student/faculty CI training at all ND EPSCoR-participating institutions on potential CI uses/benefits.

Support will be available for one academic year (August 16, 2022 – May 15, 2023) for one-half (10 hours per week) of a full-time graduate student assistantship in the UND Computational Research Center (CRC). For the ND-ACES supported 10 hours per week, the student must work within the CRC under the direction of the Center's staff. For more information, see the Request for Applications.

Application Deadline: Due to the UND Office of Research and Sponsored Programs 5:00 pm CDT on July 1, 2022

Graduate Student Cyberinfrastructure Assistantship Program (NDSU Announcement Only)

ND EPSCoR's New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES) Graduate Student Cyberinfrastructure (CI) Assistantship program is designed to (1) increase student understanding of advanced research computing in hardware and software as it relates to their discipline; (2) provide additional support to faculty in the Center for Cellular Biointerfaces in Science and Engineering (CCBSE); and (3) provide student/faculty CI training at all ND EPSCoR-participating institutions on potential CI uses/benefits.

Support will be available for one academic year (August 16, 2022 – May 15, 2023) for one-half (10 hours per week) of a full-time graduate student assistantship in the NDSU Center for Computationally Assisted Science and Technology (CCAST). For the ND-ACES supported 10 hours per week, the student must work within the CCAST under the direction of the Center's staff. For more information, see the Request for Applications.

Application Deadline: Due to ND EPSCoR at 5:00 pm CDT on July 15, 2022

Undergraduate Research Assistantship (URA) Program

This program gives current junior and senior undergraduate students pursuing a B.S. STEM degree at a four-year institution (or a two-year institution granting B.S. STEM degrees) in North Dakota an opportunity to perform research within the National Science Foundation (NSF)-funded New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES) Center for Cellular Biointerfaces in Science and Engineering (CCBSE).

The URA is a six-month award that is renewable for up to one additional year. URA awardees will conduct up to 18 months of research under the direction of an ND-ACES CCBSE researcher. For more information, see the Request for Applications.

Application Deadline: Open until funds are exhausted

Distributed Research Experience for Undergraduates (dREU)

Under this program, undergraduate students from the nine ND EPSCoR ND-ACES RII Track-1 participating campuses - three Primarily Undergraduate Institutions (PUIs), one Master's College/University (MCU), three Tribal Colleges/Universities (TCUs) located in ND, or the two Research Universities (RUs) – are required to work in the ND-ACES Center for Cellular Biointerfaces in Science and Engineering (CCBSE) alongside NSF Track-1 faculty researchers on their CCBSE cutting-edge research projects in materials design, cellular systems, or computational approaches. Women, minorities underrepresented in STEM, persons with disabilities, first-generation college students, economically disadvantaged, or rural populations are strongly encouraged to apply. For more information, see the Request for Applications.

Application Deadline: Open until funds are exhausted

Doctoral STEM Teaching Assistantship

The Doctoral STEM Teaching Assistantship is supported by the NSF-funded award New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES). This assistantship is designed to strengthen North Dakota's STEM ecosystem by building a diverse pool of effective educators, skilled researchers, and engaged students. More specifically, the assistantship will (a) strengthen doctoral students' experience in undergraduate STEM education, and (b) reduce the instructional workload of ND-ACES faculty at non-research universities, thereby allowing them to devote additional time to research.

The Doctoral STEM Teaching Assistantship is a semester-long teaching placement (during Fall 2022 or Spring 2023). Eligible candidates must be enrolled in a doctoral STEM program at a North Dakota research university (i.e., North Dakota State University or University of North Dakota).

For more information, see the Request for Applications.

Spring 2023 Assistantship deadline: October 1st

ND-ACES: Emerging Areas/Seed Award Proposals Request for Applications

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

Travel Awards for ND-ACES CCBSE Faculty Participants

ND EPSCoR's New Discoveries in the Advanced Interface of Computation, Engineering, and Science (ND-ACES) RII Track-1 mission is to support scientific efforts that result in increased STEM faculty capacity and competitiveness.

To underscore the importance of collaborations in the sustainability of the ND-ACES effort, travel seed awards of up to $3,000 are available to ND-ACES Center for Cellular Biointerfaces in Science and Engineering (CCBSE) senior personnel. A collaboration is the extension or development of a research-based engagement (directly aligned with the CCBSE applicant's

ND-ACES activities) with a non-CCBSE researcher affiliated with an academic institution or national laboratory. Travel must be within the domestic U.S. (including within ND) and must be completed by 6/15/23. For details, see the Request for Proposals.

Proposal Submission Deadline: when funds are exhausted

Defense Established Programs to Stimulate Competitive Research (DEPSCoR) FOAs

The Department of Defense (DoD) announces the fiscal year 2022 (FY22) Defense Established Program to Stimulate Competitive Research (DEPSCoR). The program is sponsored and managed by the Basic Research Office, Office of the Under Secretary of Defense for Research and Engineering (OUSD [R&E]), awarded by the Air Force Office of Scientific Research (AFOSR), and administered through the Office of Naval Research (ONR). The DoD plans to award FY22 DEPSCoR appropriations through this announcement. Funding opportunities will open for registration on June 22.

The Research Collaboration (FOA-AFRL-AFOSR-2022-0006) funding opportunity seeks proposals that advance knowledge in basic science involving bold and ambitious research that may lead to extraordinary outcomes such as disrupting accepted theories and perspectives. Proposals must be submitted by a pair of researchers in DEPSCoR States/Territories (Applicant and Collaborator) aimed at introducing potential applicants to the DoD's unique research challenges and its supportive research ecosystem.

The Capacity Building funding opportunity (FOA-AFRL-AFOSR-2022-0007) aims to support the strategic objectives of institutions of higher education (IHE) (either individually or in partnership with others) in DEPSCoR States/Territories to achieve basic research excellence in areas of high relevance to the DoD.

ND NASA EPSCoR – Request for Proposals

North Dakota NASA EPSCoR (Established Program to Simulate Competitive Research) is soliciting research proposals from faculty at affiliate institutions for Research Seed Grant funding and Travel Grant Funding. Funding must contribute to the completion of NASA relevant research designed to promote and expand particular NASA research sub disciplines in North Dakota.

Seed research proposals are due at noon on July 13, 2022.

The full RFP, online submission form and budget sheet can be found in the:

http://blogs.und.edu/jdosas/2022/05/nd-nasa-epscor-research-and-travel-rfp-summer-2022/.

FY 2023 RII Track-1 solicitation (NSF 22-599)

The FY 2023 RII Track-1 solicitation (NSF 22-599) has been released.
https://beta.nsf.gov/funding/opportunities/epscor-research-infrastructure-improvement-program-track-1-rii-track-1
Letter of Intent Due Date(s) (required) (due by 5 p.m submitter's local time):
July 19, 2022
Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):
August 22, 2022

Department of Defense: DEPSCoR Regional DoD Day

The Department of Defense (DoD) has asked the University of South Dakota to host a regional DEPSCoR DoD Day, where DoD program managers will provide information about the DEPSCoR program and general information about working with the DoD. The regional DEPSCoR Day will be held in Vermillion, SD on July 19, 2022. For more information, please see: DEPSCoR Regional DoD Day

NSF: EPSCoR Workshop Opportunities

EPSCoR is designed to fulfill NSF's mandate to promote scientific progress nationwide, and NSF EPSCoR continually welcomes proposals for workshops in Solicitation NSF 19-588. These workshops focus on multi-jurisdictional efforts of regional to national importance related to EPSCoR's goals and NSF's mission. For more information, please see the RFP: EPSCoR Workshop Opportunities

Acronyms

Participating Institutions:
- Master's College/University (MCU)
    - Minot State – Minot State University
- Primarily Undergraduate Institutions (PUIs)
    - DSU – Dickinson State University
    - Mayville State – Mayville State University
    - VCSU – Valley City State University
- Research Universities (RUs)
    - NDSU – North Dakota State University
    - UND – University of North Dakota
- Tribal Colleges/Universities (TCUs)

- o CCCC – Cankdeska Cikana Community College
- o NHSC – Nueta Hidatsa Sahnish College
- o SBC – Sitting Bull College
- o TMCC – Turtle Mountain Community College
- o UTTC – United Tribes Technical College

Funding:

- National Science Foundation (NSF) EPSCoR Research Infrastructure Improvement (RII) Track-1 Cooperative Agreements
  - o ND-ACES – New Discoveries in the Advanced Interface of Computation, Engineering, and Science (NSF OIA #1946202)
- NSF Collaborative Research
  - o CIRCLES Alliance – Cultivating Indigenous Research Communities for Leadership in Education and STEM Alliance (NSF OIA #2038196)
- ND EPSCoR State Office
  - o STEM programming identified within the newsletter and state match funding for ND-ACES

Acknowledgement

Stay in touch

Our mailing address is:
ND EPSCoR
1805 NDSU Research Park Drive N
Fargo, ND 58102
701-231-8400
www.ndepscor.ndus.edu
email: ndepscor@ndus.edu
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