

**NDSU** OFFICE OF  
RESEARCH AND CREATIVE ACTIVITY

# RCA UPDATE

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December 6, 2021

## Meet NDSU's New Faculty Members

Throughout the year, RCA will be highlighting new faculty in the weekly newsletter.  
Full profiles are available on the [RCA website](#).

### **Chau Le, PhD**

#### **Civil, Construction and Environmental Engineering**

**What are your primary research and scholarly interests?**

Applications of data analytics and artificial intelligence for decision making and project performance evaluation and enhancement, Alternative contracting methods, Sustainable and resilient infrastructure, Emerging technologies and robotics, and Human safety and health.



**Where are you from and where did you pursue your education?**

I am originally from Vietnam. I took my undergraduate degree in Civil Engineering and master's degree in Construction in my home country. I got my Ph.D. in Interdisciplinary Engineering from Texas A&M University in Summer 2021.

**What excites you about NDSU?**

I am excited about NDSU's welcoming and collaborative community.

**What motivates you?**

The increasing challenges in the construction industry and students' education quality.

[Learn more about Chau >>](#)

**Omid Beik, PhD****Electrical and Computer Engineering****What are your primary research and scholarly interests?**

My primary research expertise embraces different aspects of renewable generation systems, and their interface to the power grid. Particularly, my current work is in design, modelling and analyses of high voltage (HV) and high power wind turbine generators (WTGs), their control, and power electronics interface (drives) adaptable for DC grids. My secondary research is the design, modelling, analyses and control of electric machines for applications in transportation electrification. My work in this domain specifically includes multiphase and hybrid permanent magnet (PM) electric machine topologies for electric vehicles (light-, medium- and heavy-duty). In my industrial experience I have expanded my work on research and development of entire vehicle electrified powertrain, where I have led development of the electric machines, power electronics, their control and interface to a medium-duty electric vehicle.

**Where are you from and where did you pursue your education?**

I received my Ph.D. degree in electrical engineering from McMaster University, Hamilton, ON, Canada, in 2016. I was a Postgraduate Researcher with the Power Conversion Group, University of Manchester, U.K. (2011–2012) and a Postdoctoral Research Fellow at McMaster University, Hamilton, ON, Canada (2016–2017). After

Postdoc I was a Senior Engineer with Magna Powertrain, Concord, ON, Canada (2017-2018), then a Lead R&D Engineer with Mirus International Inc, Brampton, ON, Canada (2018-2019), and then a Senior Manager with Forte Mobility Co. Ltd., Aurora, ON, Canada (2020-2021).

**What excites you about NDSU?**

I am excited to begin my career at NDSU. I look forward to meet my undergraduate students in the class and engage them in conversations on renewable energy systems and their impact on our lives. I am also excited to work with the new graduate students.

**What motivates you?**

The field of engineering in general is what motivates me. In particular, I look forward to contribute to the widespread of renewable energy systems on terrestrial power grids, and moving towards extraterrestrial systems.

[Learn more about Omid >>](#)



## RCA welcomes Tania Molden

Tania Molden joins RCA research integrity as the research integrity and compliance administrator - Institutional Animal Care and Use Committee (IACUC). Previously a member of the NDSU Animal Sciences team, Tania is a graduate of the University of Minnesota and previously worked as a high school social studies teacher and administrative assistant for the North Dakota Highway Patrol.

## Upcoming Seminars and Events

- **Virtual Workshop: Alan Alda Center for Communicating Science**  
December 7, 2021 / [Learn more >>](#)
- **Virtual “flash” Research Presentations with NASA Researchers**  
January 20, 2022 - **REGISTER BY DEC 7** / [Learn more >>](#)
- **Lunch and Discussion: ND Soybean Council**  
January 20, 2022 / [Learn more >>](#)
- **Student Research Day**  
April 19, 2022 / [Learn more >>](#)

## Research.gov to Replace FastLane - December 2022

The National Science Foundation (NSF) currently uses FastLane and Research.gov as portals for proposal submission and management. However, **NSF plans to transition all proposal preparation and submission functionality from FastLane to Research.gov by a target date of December 31, 2022.** At that time, FastLane will no longer be available for proposal submissions. In preparation for this change, you are encouraged to begin using Research.gov for proposal preparation and submission. To learn more about Research.gov, visit the [About Proposal Preparation and Submission](#) page on the NSF website.

## Project Types in Novelution

When completing a proposal record in [Novelution](#), faculty are asked in the Budget panel to specify the

Project Purpose Type for the proposal. NDSU divides Organized Research into three categories based on the NSF definitions:

- **Basic research** is experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
- **Applied research** is original investigation undertaken in order to acquire new knowledge. It is, however, directed primarily towards a specific, practical aim or objective.



- **Developmental research** is systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

The NDSU Policy Manual, [Section 813](#), contains the definitions for Instruction and Other Sponsored Activity.

- **Instruction** means the teaching and training activities of NDSU. Except for research training, this term includes all teaching and training activities, whether they are offered for credits toward a degree or certificate or on a non-credit basis, and whether they are offered through a regular academic session, summer school division, an extension division, or a continuing education division.
- **Other Sponsored Activity** means programs and projects financed by federal and non-federal agencies and organizations which involve the performance of work other than instruction and organized research. Examples of such programs and projects are health service projects, and community service programs.

If you have additional questions on which type is right for your project, you can email [ndsu.research@ndsu.edu](mailto:ndsu.research@ndsu.edu).

## Requesting a No-Cost Time Extension

As a sponsored project is nearing the end of its awarded period of performance, an assessment should be done to determine if the scope of work will be fully completed within the awarded period. If the work will not be concluded within that timeframe, a no-cost time extension should be requested. A no-cost time extension is a request to extend the period of performance **without** the receipt of additional funds. Most funding agencies will generally allow no-cost time extensions on projects. Depending on its policy, an agency may allow NDSU to approve a time extension, or the granting agency may need to approve the time extension. Some agencies also require that extension requests be submitted well in advance of the

award expiration date. You can consult your grant agreement or granting agency policy to verify eligibility of a project for an extension and for additional instructions. Requests for no-cost time extensions should be initiated in the [Novelution](#) system.

**Steps to initiate a No-Cost Time Extension in Novelution:**

- Under the “Grants & Contracts” tab, select “Search Projects” and enter either the project FAR or NOV number in the "Jump to Record" section at the top of the page.
- In the blue "Unlock Award" box, click “Amend.”
- Select Award Amendment Type – No Cost Extension.
- Enter new Proposed End Date.
- Complete Justification (explain why extension is needed).
- Upload any documentation that supports the request in the Additional Documentation box.
- In "Review Status" select “Requested by PI.”
- Click the "Submit" button. By clicking Submit, a task will be generated for the SPA office to review and take the necessary next steps (approval or formal request to the funding agency).

Additional No Cost Extension information is available [here](#). Questions may be directed to [ndsu.research@ndsu.edu](mailto:ndsu.research@ndsu.edu)

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## FUNDING OPPORTUNITIES

- [Burroughs Wellcome Fund: Climate Change and Human Health Seed Grants](#)
- [DARPA: Cornucopia – Microbial-Origin Food Production at Point of Consumption](#)
- [NEH: Institutes for Advanced Topics in the Digital Humanities](#)
- [NIH: Academic Research Enhancement Award \(R15\)](#)
- [NSF: Future of Work at the Human-Technology Frontier](#)
- [NSF: Smart and Connected Communities](#)
- [NSF: STEM Education Postdoc Research Fellowships](#) – LIMITED

- [NSF: Understanding the Rules of Life – Emergent Networks](#)
- [Spencer Foundation: Education Research](#)
- [USDA: Equipment Grants](#) – LIMITED

## Upcoming Limited Submission Program Deadlines

[Limited submission grant programs](#) are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program. Email notifications of interest to [ndsu.researchdev@ndsu.edu](mailto:ndsu.researchdev@ndsu.edu).

If you identify a limited submission opportunity that is not on the list below, please notify [ndsu.researchdev@ndsu.edu](mailto:ndsu.researchdev@ndsu.edu).

- [NEA: Grants for Arts Programs](#)  
*Notification Deadline: 12/8/2021*
- [NSF: Community Facility Support - Synchrotron-based analytical capabilities advancing Earth and Environmental Sciences Research and Training](#)  
*Notification Deadline: 12/8/2021*
- [NIH: Diabetes Research Centers](#)  
*Notification Deadline: 12/8/2021*
- [NSF: Materials Research Science and Engineering Centers](#)  
*Notification Deadline: 12/8/2021*
- [NSF: Scholarships in STEM](#)  
*Notification Deadline: 12/15/2021*
- [FFAR: New Innovator in Food and Agriculture Research Award](#)  
*Notification Deadline: 12/21/2021*
- [NSF: STEM Education Postdoc Research Fellowships](#)  
*Notification Deadline: 12/21/2021*
- [USDA: Equipment Grants](#)  
*Notification Deadline: 12/21/2021*
- [NSF EPSCoR RII Track 4: EPSCoR Research Fellows](#)  
*Notification Deadline: 01/18/2022*

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](mailto:ndsu.researchdev@ndsu.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](mailto:ndsu.researchdev@ndsu.edu).

## Burroughs Wellcome Fund: Climate Change and Human Health Seed Grants

The [Burroughs Wellcome Fund](#) (BWF) aims to stimulate the growth of new connections between scholars working in largely disconnected fields who together might change the course of climate change's impact on human health.

To that end, BWF will award [small, early-stage grants](#) between \$2,500 and \$50,000 to promote growth of new connections between scholars, practitioners, educators, and / or communicators working to understand, spread the word about, and mitigate the impacts of climate change on human health. Topics of interest include linking basic / early biomedical science to climate-focused thinking; sustainability in healthcare systems, healthcare delivery outside institutions, and biomedical research; health impacts and health systems impacts of extreme weather events and other crises; and outreach, communication, and education around climate and human health.



The Fund is particularly but not exclusively interested in activities that build connections between basic / early biomedical scientific approaches and ecological, environmental, geological, geographic, and planetary-scale thinking, and population-focused fields including epidemiology and public health demography, economics, and urban planning. Also of interest is work to launch new approaches or interactions toward reducing the impact of health-centered activities, for example, developing more sustainable systems for health care, care delivery, and biomedical research systems. Another area of interest is preparing for the impacts of extreme weather and other crises that can drive large scale disruptions that will immediately impact human health and delivery of health care. Public outreach, climate communication, and education efforts focused on the intersection of climate and health are also appropriate for this call.

*Proposals will be accepted on a rolling basis with quarterly review through August 30, 2023; the next deadline to apply is January 10, 2022.*

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## **DARPA: Cornucopia – Microbial-Origin Food Production at Point of Consumption**

The Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) is sponsoring a Proposers Day webcast to provide information to potential proposers on the objectives of an anticipated Broad Agency Announcement (BAA) for the Cornucopia program.

**The Proposers Day will be held via prerecorded webcast on December 15, 2021 from 9:00 AM to 2:00 PM. Advance registration is required for viewing the webcast.**

The Cornucopia program will enable the capability to produce nutritionally complete, microbial-origin foodstuffs at the point of consumption, consistent with military nutritional standards, starting with air (CO<sub>2</sub>, N<sub>2</sub>), water, electricity, and microbes. The term “microbe” refers to bacteria, archaea, fungi, protozoa, or microalgae. Out of scope is any approach that cultivates animal- or higher plant-derived cells or organisms. Cornucopia aims to design and test systems that are capable of producing highly nutritious, palatable microbial-origin food to enhance force readiness and operational resilience, prolong mission endurance, defend against supply chain disruptions, support

disaster relief, and mitigate cascading vulnerabilities in the homeland in the face of an attack or disaster.

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## **NEH: Institutes for Advanced Topics in the Digital Humanities**

The National Endowment for the Humanities (NEH) [Institutes for Advanced Topics in the Digital Humanities](#) program supports national or regional (multistate) training programs for scholars, humanities professionals, and graduate students to broaden and extend their knowledge of digital humanities. Through this program, NEH seeks to increase the number of humanities scholars and practitioners using digital technology in their research and to broadly disseminate knowledge about advanced technology tools and methodologies relevant to the humanities.

There is wide latitude in the form and content of institutes. They may focus on a particular computational method, such as network or spatial analysis, or target the needs of a particular humanities discipline or audience. They could be offered only once or offered multiple times to different audiences. They may be as short as a few days or as long as six weeks, held at a single site, multiples sites, or virtually, but the format and duration of a program should allow for full and thorough treatment of the topic and be appropriate for the intended audience. Institutes could be scheduled before or after regularly occurring scholarly meetings, during the summer months, or during appropriate times of the academic year.

*Optional draft deadline: January 23, 2022*

*Application deadline: March 2, 2022*

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## **NIH: Academic Research Enhancement Award (R15)**

The purpose of this Academic Research Enhancement Award (AREA) for Undergraduate-Focused Institutions [\[PAR-21-155\]](#) is to support small scale research grants at institutions that do not receive substantial funding from the NIH, with an emphasis on providing biomedical research experiences primarily for undergraduate students, and enhancing the research environment at applicant institutions.

**Faculty with a primary appointment that is not in a health professional school or graduate school are eligible for the NIH AREA program.** NDSU is not eligible for the NIH R15 Research Enhancement Award Program (REAP) for Health Professional Schools and Graduate Schools.

For the institutional information needed for R15 grants, check the RCA Website [Federal Funding page](#), in the NIH section.

*Upcoming deadlines: February 25, 2022; June 25, 2022*



## **NSF: Future of Work at the Human-Technology Frontier – Core Research**

The specific objectives of the Future of Work at the Human-Technology Frontier program [\[NSF 22-533\]](#) are to:

1. facilitate multi-disciplinary or convergent research that employs the joint perspectives, methods, and knowledge of behavioral science, computer science, economics, engineering, learning sciences, research on adult learning and workforce training, and the social sciences;
2. develop deeper understandings of how human needs can be met and values respected in regard to how new technologies, conditions, and work experiences are changing;
3. support deeper understanding of the societal infrastructure that accompanies and leads to new work technologies and new approaches to work and jobs, and that prepares people for the future world of work;
4. encourage the development of a research community dedicated to designing intelligent technologies and work organization and modes inspired by their positive impact on individual workers, the work at hand, the way people learn and adapt to technological change, creative and inclusive workplaces (including remote locations, homes, classrooms, or virtual spaces), and benefits for social, economic, educational, and environmental systems at different scales;
5. promote deeper basic understanding of the interdependent human-technology partnership to advance societal needs by advancing design of intelligent technologies that operate in harmony with human workers, including consideration of how adults learn the new skills needed to interact with these

technologies in the workplace, and by enabling broad and diverse workforce participation, including improving accessibility for those challenged by physical or cognitive impairment; and

6. understand, anticipate, and explore ways of mitigating potential risks including inequity arising from future work at the human-technology frontier.

Proposals to this program should describe multi-disciplinary or convergent research that addresses technological, human, and societal dimensions of future work. Technological innovations should be integrated with advances in behavioral science, computer science, economic science, engineering, learning sciences, research on adult learning and workforce training, and the social sciences. Proposals that address the impact of large-scale disruptions such as the Covid-19 pandemic on the future of jobs and work are also of interest.

*Deadline: March 2, 2022*



## **NSF: Smart and Connected Communities**

The goal of the NSF Smart and Connected Communities (S&CC) program solicitation [[NSF 22-529](#)] is to accelerate the creation of the scientific and engineering foundations that will enable smart and connected communities to bring about new levels of economic opportunity and growth, safety and security, health and wellness, accessibility and inclusivity, and overall quality of life.

For the purposes of this solicitation, communities are defined as having geographically-delineated boundaries—such as towns, cities, counties, neighborhoods, community districts, rural areas, and tribal regions—consisting of various populations, with the structure and ability to engage in meaningful ways with proposed research activities. A “smart and connected community” is, in turn, defined as a community that synergistically integrates intelligent technologies with the natural and built environments, including infrastructure, to improve the social, economic, and environmental well-being of those who live, work, learn, or travel within it.

The S&CC program encourages researchers to work with community stakeholders to identify and define challenges they are facing, enabling those challenges to motivate use-

inspired research questions. **The S&CC program supports integrative research that addresses fundamental technological and social science dimensions of smart and connected communities and pilots solutions together with communities.**

This S&CC solicitation will support research projects in the following categories:

- **S&CC Integrative Research Grants (SCC-IRG) Tracks 1 and 2.** Awards in this category will support fundamental integrative research that addresses technological and social science dimensions of smart and connected communities and pilots solutions together with communities. Track 1 proposals may request budgets ranging between \$1,500,001 and \$2,500,000, with durations of up to four years. Track 2 proposals may request budgets up to \$1,500,000, with durations of up to three years.
- **S&CC Planning Grants (SCC-PG).** Awards in this category are for capacity building to prepare project teams to propose future well-developed SCC-IRG proposals. Each of these awards will provide support for a period of one year and may be requested at a level not to exceed \$150,000 for the total budget.

*Proposals accepted anytime, until April 1, 2024*

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## **NSF: Science, Technology, Engineering and Mathematics Education Postdoctoral Research Fellowships – Limited Submission**

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.

**STEM Ed PRF Institutional Cohort: Notify RCA by 12/21/2021, 4:00 p.m. if you are interested in submitting to this program.**

The Directorate for Education and Human Resources (EHR) STEM Education

Postdoctoral Research Fellowships (STEM Ed PRF) program [[NSF 22-531](#)] funds individual and institutional postdoctoral awards designed to enhance the research knowledge, skills, and practices of recent doctoral graduates in STEM, STEM Education, Education, and related disciplines, with a goal of advancing their preparation to engage in fundamental and applied research in STEM education that advances knowledge within the field. The STEM Ed PRF program offers two tracks: (I) Individual Postdoctoral Fellowships and (II) Institutional Cohort Postdoctoral Fellowships.

**Individual Postdoctoral Fellowship proposals** (Track I) must be submitted by Individuals. However, if an award is recommended, the proposal will be transferred to the host institution where the postdoctoral Fellow will be named as the PI. The award will be issued to the host institution as a regular research award, and the award will be administered by the host institution. There are no restrictions on the number of proposers an organization may host.

Proposers for **Institutional Cohort Postdoctoral Fellowships** (Track II) may be an individual institution of higher education or a collaborative of multiple institutions (up to three institutions, including the lead institution). The primary (lead) institution must be accredited and include an active STEM education research program and experts prepared to actively mentor postdoctoral fellows. For collaborations of multiple institutions, the secondary (collaborating) institutions must be accredited two-year, four-year, or graduate-level institutions of higher education (including community colleges) *or* can be non-profit, non-academic organizations engaged in STEM education and / or STEM education research activities. While not all collaborating institutions must host a fellow or fellows, all institutions should have a substantive role and contribute significant value to the proposed project.

**LIMITED SUBMISSION:** Each institution may be named in only one Institutional Cohort Postdoctoral Fellowship proposal per competition, in either a single institutional or collaborative institutional proposal. There are no restrictions on the number of Individual Postdoctoral Fellowship proposers that an organization may host.

## NSF: Understanding the Rules of Life – Emergent Networks

This Understanding the Rules of Life: Emergent Networks (URoL:EN) solicitation [[NSF 22-532](#)] is a cross-directorate program of NSF that aims to develop a predictive understanding of how key properties of living systems emerge from interactions of factors such as genomes, phenotypes, and environments and how emerging networks of organismal, natural, social, and / or human-engineered systems respond to or influence evolving environments. Successful projects of the URoL:EN program are expected to use convergent approaches that explore emergent network properties of living systems across various levels of organizational scale and, ultimately, to contribute to understanding the rules of life through new theories and reliable predictions about the impact of specific environmental changes on behaviors of complex living systems, or engineerable interventions and technologies based on a rule of life to address associated outcomes for societal benefit. Projects that advance all of the different fields of science represented in the project and that represent different NSF Directorates are strongly encouraged.

Using such convergent approaches, proposals must:

1. Identify a rule(s) of life around which the proposed research is oriented or to which the research is applied.
2. Include a compelling convergent research plan with deep integration across disciplines.
3. Involve a basic, or fundamental, research approach to investigate a new understanding of emergent networks of interactions between organisms and Earth, human, natural, and / or human-engineered systems in evolving environments.

The convergent scope of URoL:EN projects also provides unique STEM education and outreach possibilities to train the next generation of scientists in a diversity of approaches and to engage society more generally. Hence, the URoL:EN program encourages research projects that integrate training and outreach activities in their research plan, provide convergent training opportunities for researchers and students, develop novel teaching modules, and broaden participation of under-represented groups in science.

The URoL:EN Program will support projects with a total budget of up to \$3,000,000 and an award duration of up to 5 years.

*Deadline: March 1, 2022*



## **Spencer Foundation: Large Research Grants on Education**

The [Large Research Grants on Education Program](#) supports education research projects that will contribute to the improvement of education, broadly conceived, with budgets ranging from \$125,000 to \$500,000 for projects ranging from one to five years. The Foundation anticipates awarding grants with budgets across each of the following funding tiers -- \$125,000 to 250,000; \$250,001 to \$375,000; and \$375,001 to \$500,000. The Spencer Foundation accepts Intent to Apply forms twice a year.

This program is “field-initiated” in that proposal submissions are not in response to a specific request for a particular research topic, discipline, design, method, or location. The goal of this program is to support rigorous, intellectually ambitious and technically sound research that is relevant to the most pressing questions and compelling opportunities in education.

*Intent to apply deadline: January 26, 2022*



### **USDA: Equipment Grants – Limited Submission**

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

**USDA Equipment: [Notify RCA](#) by 12/21/2021, 4:00 p.m. if you are interested in submitting to this program.**



In anticipation of the FY22 request for applications (RFA) being released in January 2022 for a March deadline, we are soliciting notifications of interest for the [USDA-NIFA Equipment Grant Program](#) (EGP).

Based on the FY21 RFA, the EGP serves to increase access to shared-use special purpose equipment / instruments for fundamental and applied research for use in the food and agricultural sciences programs at institutions of higher education, including State Cooperative Extension Systems. The program seeks to strengthen the quality and expand the scope of fundamental and applied research at eligible institutions, by providing them with opportunities to acquire one major piece of equipment / instruments that support their research, training, and extension goals and may be too costly and / or not appropriate for support through other NIFA grant programs.

The EGP does not support the acquisition of suites of equipment to outfit research laboratories / facilities or to conduct independent experiments simultaneously. Similarly, the EGP does not fund common, general purpose ancillary equipment that would normally be found in a laboratory and / or is relatively easily procured by the organization or through other NIFA grant programs. Rather, it is intended to help fund items of equipment that will upgrade infrastructure. Moreover, EGP does not fund research projects, including research that uses the equipment acquired with support from the program nor does it support the operation and maintenance of facilities.

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## **Virtual Workshop - Alan Alda Center for Communicating Science: Impactful Science Policy Writing - Empowering Scientists to Engage Society**

**December 7, 2021 | 11:00am-12:00pm**

Researchers have knowledge that could be useful to policymakers and their constituents. But working with policymakers - building trust, and finding opportunities for collaboration

and discussion - requires skills that many experts lack.

During this session, Dr. Adriana Bankston (CEO & Managing Publisher, Journal of Science Policy & Governance) will offer suggestions and strategies for researchers who want their findings to aid policymakers and policymaking. She will also discuss opportunities for early-career scientists to publish their policy work in ways that are more likely to reach government officials and others. [Register to participate >>](#)

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## Virtual "Flash" Research Presentations with NASA Researchers

**January 20, 2022 | 2-3:30pm**

The following opportunity is open to ND faculty completing research relevant to NASA.

**What:** 2 minute “flash” research presentations with NASA Langley and NASA EPSCoR researchers – Virtual Meeting

**Who:** ND Faculty completing NASA Relevant research are invited to attend and present

**Where:** Virtual format

**When:** 2:00 – 3:30pm Central, January 20, 2022

### Details:

Faculty completing research relevant to NASA, specifically in one of the following 6 research areas, are invited to present at a collaborative meeting with NASA Langley researchers. The **goal** of this meeting is to increase collaborations between academic institution researchers and NASA researchers. There will be an in-person meeting at NASA Langley in June 2022 that the ND faculty **may** be invited to attend to further establish research connections.

### 6 Research Areas:

1. Intelligent Flight Systems & Trusted Autonomy: Smart cities, automation, robotics;
2. Systems Analysis and Concepts: Air transportation system architectures and vehicle concepts;
3. Advanced Materials & Structural Systems: Advanced manufacturing;
4. Entry, Descent & Landing: Robotic mission entry vehicles;
5. Terrestrial and Planetary Atmospheric Sciences: Air quality, properties of clouds, winds, aerosols, water vapor, trace gases, climate change; and

6. Innovative Concepts for Earth and Space Science Measurements: LIDAR, spectroscopy, radiometry active remote sensing, advanced sensors and optical measurement

**Action:**

If a ND faculty member is interested in presenting at this event, **email the following details to ND NASA EPSCoR Director, Caitlin Milera ([milera@psace.edu](mailto:milera@psace.edu))**, no later than **Noon, December 7, 2021:**

- Full name
- Department
- Institution
- # of Research Area best aligned with your interests (#1-6)
- Brief Description of Research, < 150 words
- Goals of Collaborative Research with NASA Langley, < 150 words

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## **Lunch and Discussion with ND Soybean Council**

**January 20, 2022 | 11:00am-12:30pm**

On Thursday, January 20, from 11am – 12:30pm come to the Hidatsa Room in the Memorial Union to meet with staff from the North Dakota Soybean Council. At this event you will learn more about the “New Uses” Request For Proposals (RFP) that will be released at the start of the new year, and the current trends in the industry. The event will start with a short presentation from the ND Soybean Council on the RFP, the application process, and the proposal review process. The presentation will be followed by time for lunch and discussion. Lunch will be provided, and registration is necessary to get a count for ordering lunch. [Register to attend >>](#)

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# **STUDENT RESEARCH DAY**

 **Save the Date**  **APRIL 19, 2022** 

**April 19, 2022**

**NDSU Student Research Day** is a new event involving a collaboration between **NDSU EXPLORE**, **Gamma Sigma Delta**, and the **Graduate Student Council**. We are excited to bring together what once was three separate events into one day of celebrating undergraduate and graduate student research and creative projects.

**Please plan to join us on April 19, 2022 in the Memorial Union.**

Watch for more information on registration and event details in early 2022.



Have questions, ideas, or suggestions for the RCA Update?

[Contact Us](#)



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*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.*