Meet NDSU's New Assistant Professors

A warm welcome to NDSU’s new assistant professors! Throughout the year, RCA will be highlighting new faculty in the weekly newsletter. Full profiles are available on the RCA website.

Ademola Hammed, Ph.D.
Agricultural and Biosystems Engineering
What are your primary research and scholarly interests?
Big picture: Food and bioprocess engineering
Specific: Development of new or improved bioprocessing for value added products from bioresources.

Where are you from and where did you pursue your education?
I am from Nigeria. My journey: BSc in Food Science and Technology from the Federal University of Technology Akure, Nigeria; MSc and PhD in Biotechnology Engineering from International Islamic University Malaysia.

What excites you about NDSU?
Research support and staff development support.

What motivates you?
True and grounded ideas.

Learn more about Ademola >>

Faculty Senate approves Conflict of Interest policy changes
On September 9, Faculty Senate approved changes to NDSU Policy Section 151.1, External Activities and Conflict of Interest (COI). The most significant change is the establishment of a University-wide COI committee. Centralizing COI matters under a single committee will streamline the disclosure and review process, reduce paperwork for faculty and Chairs, and ensure better consistency in the management of
The process that resulted in changes to this policy section was largely coordinated by Dr. Dennis Cooley, in his role as a Faculty Fellow under the office Research and Creative Activity during FY2019. Dr. Cooley was looking to improve the NDSU research process to better facilitate research activities and benefit all stakeholders. In the Fall of 2018, Dr. Cooley conducted a campus-wide survey, looked at best practices and policies at other institutions, and led a working group that engaged in the rewrite of the policy section. Dr. Cooley worked with the Jane Schuh, Vice President for Research, as well as Sponsored Programs and Research Integrity in crafting the policy changes. Throughout the process Dr. Cooley worked closely with Faculty Senate and central administration in terms of reviews and approvals of language.

Please watch for additional information to be shared in the RCA Update as the formation of the committee is finalized. Questions can be directed to Julie Sherwood at j.sherwood@ndsu.edu.

Welcome Amy Kain

We are happy to welcome Amy Kain to RCA as the Assistant to the Vice President. Amy comes to us from the department of Chemistry and Biochemistry at NDSU, where she worked as academic assistant for Dr. Greg Cook for five years. Prior to that, Amy worked as Director of Life Enrichment at Riverview Place, an assisted living facility in Fargo for 10 years where she was responsible for managing all events, functions, and meetings for residents, facility staff, and guests.
ND Department of Commerce Adds Application Dates

The ND Department of Commerce has added two additional submission dates for the Research ND program: October 4, 2019 and November 8, 2019. These will be the last application deadlines for Research ND and Venture Grant Phase II applications. All applications must clearly demonstrate that the proposed projects will be completed on or before June 30, 2021, which marks the end of the Research ND Program. The North Dakota Legislative Assembly, in passing SB 2224, set the end of the Research ND program, which includes Venture Grants, as June 30, 2021. All projects must be completed and the final reports submitted to Commerce by this date. Please review the revised Program manual. Questions can be directed to ndsu.research@ndsu.edu.

Grants vs. Contracts

Have you ever wondered what the difference is between a grant and a contract? The Grants.gov Community Blog recently published a helpful article that defines and helps to differentiate between government contracts and grants. You can read the article here.

Conflict of Interest, Grants, and Foreign Recruitment Programs

A conflict of interest is a situation in which a person is in a position to derive personal benefit from actions or decisions made in their official capacity.
Recently, the National Institutes of Health (NIH) contacted several universities asking them to provide information about NIH-funded faculty members who, NIH believed, had not disclosed links to foreign governments. Last week other universities that work with National labs (specifically Idaho National Lab and National Renewable Energy Lab) were contacted by these National Labs requesting an attestation/certification that they have NO employees working on a subcontract and participating in a foreign government talent recruitment program (FGTRP) or, to give more details on the employee and the FGTRP.

The Director, Office of Intelligence and Counterintelligence, of the U.S. Department of Energy, is now developing and must maintain a list of FGTRPs that are sponsored by a foreign country of risk. The list has not been published yet. On June 6, 2019, the U.S. Department of Energy published [DOE Order 0 486.1](http://example.com), to continue their scientific mission while protecting U.S. competitive and national security interests and limiting unauthorized transfers of scientific and technical information.

In light of recent emphasis on federally funded faculty also participating in FGTRPs, it is recommended that you review your current situation and keep your SFI/COI Disclosure current. Forms are available [here](http://example.com).

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Bayer Initiatives: Grants4Traits and Grants4Biologicals

Bayer strives to make the agricultural economy more productive thus contributing to society by helping to ensure an ample supply of high-quality food, feed, fiber and renewable raw materials. The company is committed to innovation and to translation of ideas from basic research into novel agricultural products. Bayer is looking to further leverage external expertise and to join forces with excellent scientists worldwide. Therefore, Bayer’s Crop Science Division is offering support to develop ideas for novel solutions that will help to achieve higher yield, quality and safety in crops as they face increasing pressure from weeds, insects, diseases and unfavorable climate conditions.

If you have discovered a novel technology and want to develop it further in cooperation with Bayer, please send a proposal via Grants4Traits or Grants4Biologicals programs. These websites contain additional information and the terms and conditions that apply to grant allocation.

For further questions on either program, please contact g4t.cropscience@bayer.com.

Application deadline: November 15, 2019.
ND Department of Environmental Quality: Mitigating Negative Air Quality Effects [VW Settlement]

The North Dakota Department of Environmental Quality (DEQ) is accepting applications for project funding from the state's share of the Volkswagen emissions-cheating settlement.

The department may issue up to $2.7 million during the first year of the project. The state's total share from the settlement is roughly $8.1 million.

Funding will be available to government and non-government entities for projects that mitigate negative air quality effects caused by Volkswagen's use of emissions testing defeating devices.

More information, including application instructions, can be found on the DEQ website.

Application deadline: October 25, 2019 at 5pm

ND EPSCoR Request for Proposals (RFP)

The ND EPSCoR State Office has a mission to support the efforts of EPSCoR participating institutions across the state that result in increased STEM faculty capacity and competitiveness and a stronger STEM pipeline that produces our next generation workforce, educators, and researchers.

To help support the efforts of faculty and students engaged in STEM research and education, the ND EPSCoR State Office is requesting proposals for activities in the following categories:

1. equipment,
2. student travel to present at national conferences,
3. faculty seed awards,
4. faculty/student awards to support K12 outreach activities,
5. awards to fund external peer review of large collaborative
   /interdisciplinary proposals prior to submission to a federal agency, and
6. undergraduate research.

The link to the RFP and necessary forms can be found at:
https://www.ndepscor.ndus.edu/funding-opportunities/resind/ndus-stem-rfp-2019/

For full consideration, proposals must be submitted by September 20, 2019.

NEA: Scholarly Editions and Translations Grants

National Endowment for the Arts (NEA) Scholarly Editions and Translations grants support the preparation of editions and translations of pre-existing texts of value to the humanities that are currently inaccessible or available only in inadequate editions or transcriptions. Typically, the texts and documents are significant literary, philosophical, and historical materials; but other types of work, such as musical notation, are also eligible. Projects must be undertaken by at least two scholars working collaboratively. These grants support sustained full-time or part-time activities during the periods of performance of one to three years.

Projects should embody the best practices recommended by the Association for Documentary Editing (ADE) or the Modern Language Association (MLA) Committee on Scholarly Editions. Translation projects must also explain the theory and method adopted for the particular work to be translated. Editions and translations produced with NEH support contain scholarly and critical apparatus appropriate to their subject matter and format. This usually means introductions and annotations that provide essential information about a text’s form, transmission, and historical and intellectual context.
Proposals for editions of foreign language materials in the original language are eligible for funding, as well as proposals for editions of materials translated into English.

*Application Deadline: December 4, 2019*

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**NIH: Centers of Biomedical Research Excellence (P20) - 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 COBRE: Notify RCA by 9/30/2019, 5:00 p.m. if you intend to apply.**

The National Institutes of Health Centers of Biomedical Research Excellence (COBRE) [PAR-19-313](#) are thematic, multidisciplinary centers that augment and strengthen institutional biomedical research capacity. This is accomplished by expanding and developing biomedical faculty research capability and enhancing research infrastructure, including the establishment of core facilities needed to carry out the objectives of a multidisciplinary, collaborative program. Only institutions in IDeA (EPSCoR) states are eligible to apply. An application in response to this funding opportunity announcement (FOA) must have a thematic scientific focus in a specific area in basic, clinical, or translational research including community engagement and outreach research as appropriate. *Applications addressing health challenges of rural populations in IDeA states are encouraged.*

The PD(s)/PI(s) must be an established biomedical or behavioral research scientist, who leads, as the principal investigator, at least one peer-reviewed research grant from NIH, NSF or other Federal or non-Federal sources that is closely related to the scientific theme of the proposed Center and has
mentoring and administrative experience to lead the COBRE program to meet its goals.

View a list of currently active COBRE centers >>

NDSU has had three previously funded COBRE centers, one each in the Departments of Chemistry, Psychology, and Pharmaceutical Sciences.

Letter of Intent due: December 28, 2019 (30 days prior to deadline);
Final application deadline: January 28, 2020.

NIH: Social Epigenomics Research Focused on Minority Health and Health Disparities (R01-Clinical Trial Not Allowed)

The purpose of this Funding Opportunity Announcement (FOA) [PAR-19-372] is to support human-based epigenomic investigations focused on identifying and characterizing the mechanisms by which social context and experiences at various stages in life, both positive and negative, affect gene function and thereby influence health trajectories or modify disease risk in racial/ethnic minority and other health disparity populations.

The overarching objectives of this initiative are to:

1. advance understanding of mechanisms by which social factors lead to epigenetic changes that affect minority health and/or health disparities, and
2. promote epigenetics research to better predict disease risk or resiliency among health disparity populations.

Minority health is defined as health characteristics and attributes of US racial and/or ethnic minority populations (Black or African American, Hispanics or
Latinos, American Indian/Alaska Native, Asian American, Native Hawaiian and other Pacific Islanders). Health disparities are defined as health differences that adversely affect socially disadvantaged populations based on one or more health outcomes. Projects must include a focus on one or more NIH-designated health disparity populations in the United States, which include racial and ethnic minorities, socioeconomically disadvantaged populations, underserved rural populations, and sexual/gender minorities.

**Letter of Intent Deadline: October 6, 2019 (LOI Due 30 days prior to application deadline)**

**Application Deadline: November 6, 2019**

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**NSF: Cultivating Cultures for Ethical STEM - Limited Submission Program**

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

**NSF CCE: Notify RCA by 10/14/2019, 5:00 p.m. if you intend to apply.**

The National Science Foundation (NSF) Cultivating Cultures for Ethical STEM (CCE STEM / NSF 18-532) program funds research projects that identify (1) factors that are effective in the formation of ethical STEM researchers and (2) approaches to developing those factors in all the fields of science and engineering that NSF supports.

CCE STEM solicits proposals for research that explores the following: ‘What constitutes responsible conduct for research (RCR), and which cultural and institutional contexts promote ethical STEM research and practice and why?’ Factors one might consider include: honor codes, professional ethics codes
and licensing requirements, an ethic of service and/or service learning, life-long learning requirements, curricula or memberships in organizations (e.g. Engineers without Borders) that stress responsible conduct for research, institutions that serve under-represented groups, institutions where academic and research integrity are cultivated at multiple levels, institutions that cultivate ethics across the curriculum, or programs that promote group work, or do not grade. Do certain labs have a ‘culture of academic integrity’? What practices contribute to the establishment and maintenance of ethical cultures and how can these practices be transferred, extended to, and integrated into other research and learning settings?

Successful proposals typically have a comparative dimension, either between or within institutional settings that differ along these or among other factors, and they specify plans for developing interventions that promote the effectiveness of identified factors.

CCE STEM research projects will use basic research to produce knowledge about what constitutes or promotes responsible or irresponsible conduct of research, and how to best instill students with this knowledge. In some cases, projects will include the development of interventions to ensure responsible research conduct.

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**NSF: Ecology and Evolution of Infectious Diseases**

The multi-agency Ecology and Evolution of Infectious Diseases program [NSF19-592](#) supports research on the ecological, evolutionary, and social drivers that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be the quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of transmission among humans, non-human animals, and/or plants.
This includes, for example, the spread of pathogens; the influence of environmental factors such as climate; the population dynamics and genetics of reservoir species or hosts; the feedback between ecological transmission and evolutionary dynamics; and the cultural, social, behavioral, and economic dimensions of pathogen transmission. Research may be on zoonotic, environmentally borne, vector-borne, or enteric pathogens of either terrestrial or aquatic systems and organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems. Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, anthropologists, modelers, ecologists, bioinformaticians, genomics researchers, social scientists, economists, oceanographers, mathematical scientists, epidemiologists, evolutionary biologists, entomologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases.

Application Deadline: November 20, 2019

NSF: Emerging Frontiers in Research and Innovation (EFRI) 2020

The Emerging Frontiers in Research and Innovation (EFRI) program [NSF 19-599] of the National Science Foundation (NSF) Directorate for Engineering (ENG) serves a critical role in helping ENG focus on important emerging areas in a timely manner. This solicitation is a funding opportunity for interdisciplinary teams of researchers to embark on rapidly advancing frontiers of fundamental engineering research. For this solicitation, proposals that aim to investigate emerging frontiers in one of the following two research areas will be considered:
- Distributed Chemical Manufacturing (DCheM)
- Engineering the Elimination of End-of-Life Plastics (E3P)

EFRI seeks proposals with transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long term impact on national needs or a grand challenge. The proposals must also meet the detailed requirements delineated in this solicitation. This solicitation will be coordinated with the Directorate for Biological Sciences, the Directorate for Mathematical and Physical Sciences and the Directorate for Social, Behavioral and Economic Sciences.

FURTHER INFORMATION: The Emerging Frontiers and Multidisciplinary Activities (EFMA) Office will host an informational webinar on Wednesday, September 18, 2019 at 1:00pm Eastern to discuss the EFRI program and answer questions about the FY 2020 solicitation. Details on how to join this webinar will be posted on the [EFMA website](https://www.efma.gov/).

*LOI Deadline: November 4, 2019*

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**VentureWell Faculty 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.

VentureWell: [Notify RCA](mailto:notify.rca@ndsu.edu) by 9/19/2019, 5:00 p.m. if you intend to apply.

VentureWell Faculty Grants provide up to $30,000 to help fund and support faculty with innovative ideas to create new or transform existing courses and programs to help students develop novel, STEM-based inventions and gain the necessary entrepreneurial skills needed to bring these ideas to market. Proposals are sought for areas that will support the emerging
generation of inventors and innovators and the ecosystems critical to their success.

**Successful grant proposals include:**

- A focus on technology entrepreneurship;
- Experiential learning by doing, and creative approaches to solving real world problems;
- The formation of student teams focused on technology inventions with positive social and/or environmental impact;
- A supportive entrepreneurial ecosystem for student teams to pursue commercialization;
- A plan for continuation of the course or program after VentureWell funding.

NDSU is limited to two submissions. Notifications of interest should be submitted by September 19, 2019, to ndsu.researchdev@ndsu.edu. If more than two notifications are received, a preproposal process will be implemented.

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**National Council of University Research Administrators Education Program Workshops**

Sponsored Programs is sponsoring three webinars that are a part of the National Council of University Research Administrators (NCURA) education program.

**NSF Fundamentals Workshop:**

The NSF Fundamentals workshop provides a primary basis of understanding of proposals to and awards from the National Science Foundation (NSF). The program is perfect for someone new to research administration, as well as for research administrators seeking to expand their knowledge of federal funding agencies. The curriculum provides an overview of the policies and procedures essential to preparing successful proposals to and managing grant awards from
NIH Fundamentals Workshop:
The NIH Fundamentals provides a primary basis of understanding of proposals to and awards from the National Institutes of Health (NIH). This workshop will give you the basics and we will walk you through the grants process, and give you an overview of key resources and websites you will need to be successful. The program is perfect for someone new to Research Administration, as well as for Research Administrators seeking to expand their knowledge of federal funding agencies. The curriculum provides an overview of the policies and procedures essential to preparing successful proposals to and managing grant awards from the NIH.

Financial Research Compliance Workshop:
The Financial Research Compliance workshop is a professional development opportunity that focuses primarily on the financial regulatory compliance aspects of Research Administration. This workshop provides an in-depth look at financial compliance issues through a combination of lecture, case studies, review of Federal audit reports, and a discussion of best practices.

Date: September 18, 2019
Time: 1:30PM – 5:00PM
Location: Research 1, Room 148/154

Date: October 16, 2019
Time: 1:30PM – 5:00PM
Location: Research 1, Room 148/154

Date: November 20, 2019
Time: 1:30PM – 5:00PM
Location: Research 1, Room 148/154
If you have any questions about these webinars, please contact the Sponsored Programs Office at ndsu.research@ndsu.edu or call 701-231-8045.

NDSU Rodent Training Series
The NDSU Rodent training series is a 4 course training series which covers basic mouse handling and techniques. The series is designed to provide foundational training and experience for faculty, staff, and students. Participation in all sessions is encouraged. Space is limited so register early.

Fall Course Schedule:

- **Mouse Handling and Husbandry Basics**  
  Wednesday, September 18 | 3-4:30 PM | Van Es 107  
  [Register for this session >>]

- **Anesthesia, Euthanasia, Necropsy**  
  Wednesday, October 9 | 8-9:30 AM | Sudro 207  
  [Register for this session >>]

- **Breeding, Genotyping, Injections**  
  Wednesday, October 30 | 3-4:30 PM | Van Es 107  
  [Register for this session >>]

- **Venipuncture**  
  Wednesday, November 20 | 3-4:30 PM | Van Es 107  
  [Register for this session >>]

The Rodent Training Series is sponsored by the Vice President for Research and Creative Activity. If you have questions about these sessions, please contact the IACUC Administrator, Josie Hayden, at 701.231.8114 or josie.hayden@ndsu.edu.

RCA Proposal Development Program
The purpose of the Proposal Development Program is to provide a professional development opportunity for NDSU faculty new to proposal writing or those seeking a refresher to hone proposal writing skills and knowledge in funding agency opportunities.

The Proposal Development Program will cover topics ranging from finding funding opportunities to developing ideas and a well-aligned and structured proposal. Budgeting, evaluation planning, and peer review sessions will also be part of the programming.

An experienced grant consultant, faculty, and research support staff will lead the sessions. Register soon to reserve your spot!

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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