

**NDSU** OFFICE OF  
RESEARCH AND CREATIVE ACTIVITY

# RCA UPDATE

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November 26, 2018

## Meet NDSU's New Assistant Professors

Throughout the year, RCA will feature new assistant professors.  
Full profiles are available on the [RCA website](#).

### Jiha Kim, Ph.D.

#### Biological Sciences

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

Cancer Biology. My research focuses on understanding complex tumor biology to dissect out novel targets within the tumor microenvironment. I am especially interested in tumor vasculature of pancreatic cancer and breast cancer.



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

I grew up in South Korea where I received B.S and M.S in molecular biology. I earned my Ph.D. in Cellular Biology from the University of Georgia.

**What excites you about NDSU?**

Great opportunities to collaborate with faculty in different disciplines.  
Students!!!  
Bison!!

**What motivates you?**

Getting to know the deadly disease (Cancer) more and realizing we still have a long way to go but at the same time realizing that what we have accomplished is quite astonishing and encouraging!

Students who want to know the science!

[Learn more about Jiha >>](#)

**David Bullock, Ph.D.**

**Agribusiness and Applied Economics**

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

Futures and options markets, over-the-counter derivatives, trading, risk management, agrifinance, Monte Carlo simulation, and Big Data applications in agriculture.



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

I am from Lathrop, Missouri. I received a B.S. and M.S. in agricultural economics from NW Missouri State University, and my Ph.D. in agricultural economics from Iowa State University.

**What excites you about NDSU?**

The excellent reputation that NDSU has both regionally and nationally in scholarship and educating students.

**What motivates you?**

I am excited to be back in academics after spending the past 25 years in various positions in government and private industry, and having the ability to share this experience with students at NDSU. I am also excited about the opportunity to apply this unique experience to important industry issues through basic and applied research.

[Learn more about David >>](#)

**NDSU Biostatistics Core Facility**

The [Biostatistics Core Facility](#) exists to provide integrated information analytics services to scientists working in the physical, chemical, biological, or clinical sciences. This Core Facility can assist with data generation and analysis from conceptualization to implementation and publication, and can tailor data analyses to the

unique needs of the journals in your field of research.

Selected areas of expertise include:

- Univariate and Multivariate Analysis
- Experimental Design Theory
- Bayesian Analysis
- Nonparametric Analysis
- Change Point Detection
- Asymptotic Theory
- Health Outcomes Research
- Efficiency and Productivity Analysis

For more information or to discuss your data analysis needs, complete [this brief form](#). You can also contact the Biostatistics Core Facility directly by [emailing Director Dan Friesner](#), or calling 701.231.9509.



### Upcoming Change to NSF Biographical Sketch

The NSF Biographical Sketch requires inclusion of synergistic activities: professional and scholarly activities that focus on the integration and transfer of knowledge as well as its creation. An updated Proposal & Award Policies & Procedures Guide ([PAPPG 19-1](#)) has been revised to specify that a synergistic activity list should include up to five

distinct examples. **Proposers should not include broad categories with many examples in each category.**

PAPPG 19-1 will be effective for proposals submitted or due on or after January 28, 2019. Until then, PAPPG 18-1 will be in effect.

#### Resources:

- [NSF Biosketch Template \(Microsoft Word Document\)](#)

- [Other updates and changes in NSF PAPPG 19-1](#)

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## Carolyn Foundation: Environmental Grantmaking

[Environmental grantmaking](#) has been a key priority of the Carolyn Foundation for the past 30 years. Over that time it has funded a wide range of programs in many different communities. The current priority is to support groups working in the Upper Midwest five state area (ND, SD, MN, WI, IA) to mitigate climate change. The Foundation will make targeted investments in the five state area to bring about systemic change. For example, it will fund solutions oriented programs that mobilize citizen/community action, policy education, administrative action, sustainable business/community solutions, and pilot projects. The Foundation is not generally interested in funding stand-alone implementation projects such as local renewable energy or energy efficiency programs. An exception may be made for unique projects addressing a specific

issue for which a pilot project is needed. In this case applicants will need to demonstrate the need for the pilot; that the issue hasn't been successfully addressed elsewhere; and a plan for sharing and replicating the results. Because environmental systems are interconnected, all environmental proposals must address root causes and create sustainable solutions; demonstrate how the specific project links to a significant global environmental need; collaborate effectively with others in the community: government, non-government, foundation and private parties; and create a measurable outcome.

*Application deadlines: February 1 and August 1*



## **Center for Retirement Research: Research Projects**

Up to five grants of \$45,000 each will be awarded in 2019 to junior scholars from any academic discipline to pursue cutting-edge [research on a retirement-income issue](#). The [Center for Retirement Research](#) at Boston College sponsors the annual [Steven H. Sandell Grant Program](#) for scholars in the field of retirement research and policy. Priority areas include Social Security; macroeconomic analyses of Social Security; wealth and retirement income; program interactions; international research; and demographic research. Grant recipients may be required to present their work to the Social Security Administration in Washington, D.C., or Baltimore.

*Application deadline: January 31, 2019*



## DOE EPSCoR: Implementation Grants

The Department of Energy Established Program to Stimulate Competitive Research (DOE EPSCoR) [has announced](#) its interest in receiving applications from eligible jurisdictions for Implementation Grants ([DE-FOA-0002023](#)). Grants awarded under this program are intended to improve research capability through the support of a group of scientists and engineers, including graduate students and post-doctoral fellows, working on a common scientific theme in one or more than one EPSCoR jurisdiction. These awards are not appropriate mechanisms to provide support for individual faculty science and technology research projects. The applications are sought for research in key science and technology areas related to DOE missions, as defined in the Supplementary Information section of the Funding Opportunity Announcement (FOA). Typical award size is expected to be \$2-3 million for a two year period.

*Pre-applications to DOE due December 20, 2018; Full applications will be invited and are due March 27, 2019*

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## NIH: Data Science Research (R01)

[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 Data Science : If you are interested in applying for this opportunity, please [contact RCA](#).**

Under the National Institutes of Health (NIH) Funding Opportunity



Announcement (FOA) [PAR-19-072](#), the National Library of Medicine seeks applications for novel informatics and data science approaches that can help individuals gather, manage and use data and information about their personal health. A goal of this program is to advance research and application by patients and the research community through broadly sharing the results via publication, and through open source mechanisms for data or resource sharing. To bring the benefits of big data research to consumers and patients, new biomedical informatics and data science approaches are needed, shaped to meet the needs of consumers and patients, whose health literacy, language skills, technical sophistication, education and cultural traditions affect how they find, understand and use personal health information. Novel data science approaches are needed to help individuals at every step, from harvesting to storing to using data and information in a personal health library. Areas of development suggested below are not meant to limit the scope or creativity of proposed projects.

- Constructing a personal health library: informatics approaches that help a person gather different types of health data/information/knowledge into a single, searchable resource for personal use, including intelligent mapping tools for vocabulary used to describe elements of the library.
- Managing a personal health information library: novel informatics approaches that make it easy for an average user to expand or remove entries, make notes or corrections, including intelligent tools that alert the user to new information about topics covered in a personal health information library.
- Using a personal health library: data science and informatics approaches that make it easy to find and use the information, including visual tagging, text summarization, graphics translation, knowledge mapping, suggestions for tutorials, analytic and visualization techniques that make the information understandable based on characteristics of the individual user or group.
- Digital librarian/assistant for personal health library: data science and informatics approaches that bring machine intelligence to the

management and use of a personal health information library through personalized alerts and suggestions, literacy aids, translators or other approaches, taking into account characteristics of the individual user or group.

*Letter of Intent deadlines: December 18, 2018; June 28, 2019; December 17, 2019; June 30, 2020; December 18, 2020; June 30, 2021*

*Application deadlines: January 18, 2019; July 31, 2019; January 17, 2020; July 31, 2020; January 19, 2020; July 30, 2021*



## **Research ND Program adds December Application Deadline**

According to James Leiman, Senior Manager for Strategy, Research and Intellectual Property for the North Dakota Department of Commerce, applications for the Research ND program submitted by December 7, 2018, will be part of the December Centers Of Excellence Commission meeting. Typically applications are only accepted on a quarterly basis, so this is a bonus opportunity! For details about the program and to access an application, please see the [Research ND website](#).

Applications for the Research ND and Venture Grant Phase II programs require a 1:1 match by a private sector partner as well as a signed Partnership Agreement, so please work with Joycelyn Lucke Love ([Joycelyn.lucke@ndsu.edu](mailto:Joycelyn.lucke@ndsu.edu)) to secure that prior to submission to Sponsored Programs Administration (SPA). Applications must be routed through SPA, and are submitted electronically by SPA. (Please note that Venture Grant Phase I

applications are no longer being accepted for the current biennium.) Please contact [ndsu.research@ndsu.edu](mailto:ndsu.research@ndsu.edu) with any questions.

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## **Sanford Health - NDSU Collaborative Research Seed Grant Program**

The fifth Sanford Health - NDSU Collaborative Research Seed Grant program's Request for Applications will be released December 3, 2018. You can learn more about the program, including priority areas of interest, on the [program's webpage](#). The full Request for Applications and Application form will be available for download at that site beginning next week.

Questions regarding suitability of topic areas, collaborating with Sanford, or other program-related questions can be addressed by Business Development (231-6660 or [NDSU.businessdev@ndsu.edu](mailto:NDSU.businessdev@ndsu.edu)).

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## **USDA: National Needs Graduate Fellowships**

*This funding opportunity is open to eligible institutions; individuals are not eligible to apply.* The U.S. Department of Agriculture (USDA) [National Needs Graduate and Postgraduate Fellowships Grant Program](#) supports graduate student training and completion of master's and/or doctoral degree programs in identified national need areas within the Food, Agricultural, Natural Resources, and Human (FANH) Sciences. Awards made under the National Needs

Fellowships (NNF) program are specifically intended to support traineeship programs that engage outstanding students to pursue and complete their degrees in areas where there is a national need for the development of scientific and professional expertise in the food and agricultural sciences. Targeted Expertise Shortage Areas are:

1. animal and plant production;
2. forest resources;
3. agricultural educators and communicators;
4. agricultural management and economics;
5. food science and human nutrition;
6. sciences for agricultural biosecurity; and
7. training in integrative biosciences for sustainable food and agricultural systems.

NNF awards invest in graduate training and relevant international experiential learning for a cadre of diverse individuals who demonstrate their potential to successfully complete graduate degree programs in disciplines relevant to the mission of the USDA. For the FY 2018 award cycle, NIFA intends to support graduate Fellowship training grants for master's and doctoral levels of study only. Post-doctoral Fellowships will not be awarded under this grant announcement.

NIFA is soliciting applications for the Food and Agricultural Sciences National Needs Graduate Fellowship Grants Program under the following areas:

1. Graduate Fellowships to support training for and the completion of master's and doctoral degree programs in the FANH sciences; and
2. Special International Study or Thesis/Dissertation Research Travel Allowances (IRTA) for eligible new master's and doctoral USDA Fellows.

*Application deadline: January 23, 2019*



## NSF CAREER 101

Are you interested in the NSF CAREER program but are not sure where to start or what is involved? This session is designed for those new to the program. It will include a program overview, proposal requirements, planning for an application, and opportunities for Q&A.

### NSF CAREER 101

**Tuesday, December 11, 2018 | 12-1 p.m.**

**Memorial Union Peace Garden Room**

**[Register to attend >>](#)**

The National Science Foundation (NSF) Faculty Early Career Development ([CAREER](#)) Program is a prestigious grant award program that supports early career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research.



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.*

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