

Sent: Monday, February 05, 2018 2:48 PM
To: NDSU-EMPLOYEE-OFFICIAL@LISTSERV.NODAK.EDU
Subject: RCA Update - February 5, 2018 Edition



Welcome to the Research and Creative Activity Update!

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.

These weekly email updates are archived on the [RCA Website](#).

FUNDING OPPORTUNITIES

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EVENTS

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Limited Submission Programs: National Endowment for the Arts

[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.

[NEA Challenge America Grants: Notify RCA by 2/12/2018, 5 p.m.](#)

Challenge America grants, a category of Art Works, offers support primarily to small and mid-sized organizations for projects that extend the reach of the arts to underserved populations -- those whose opportunities to experience the arts are limited by geography, ethnicity, economics, or disability. Age alone (e.g., youth, seniors) does not qualify a group as underserved; at least one of the underserved characteristics noted above also must be present. Grants are available for professional arts programming and for projects that emphasize the potential of the arts in community development. Partnerships can be valuable to the success of these projects. While not required, applicants are encouraged to consider partnerships among organizations, both in and outside of the arts, as an appropriate way to engage with the identified underserved audience. **If an organization applies to the Challenge America category, it may not submit another application to the Art Works category.** *Application Deadline: April 12, 2018*

For more information, view the [webinar](#) for Challenge America Applicants Interested in Applying to Art Works.

NEA Art Works: Notify RCA by 4/2/2018, 5 p.m.

Art Works is the National Endowment for the Arts' principal grants program. Through project-based funding, it supports public engagement with, and access to, various forms of excellent art across the nation, the creation of art that meets the highest standards of excellence, learning in the arts at all stages of life, and the integration of the arts into the fabric of community life. Projects may be large or small, existing or new, and may take place in any part of the nation's 50 states, the District of Columbia, and U.S. territories. Support is provided for projects featuring Native American, Alaskan Native, and Native Hawaiian arts across all NEA disciplines. An organization may submit only one application under the FY 2019 Art Works guidelines. Grants generally will range from \$10,000 to \$100,000, and grants cannot exceed 50% of the total cost of the project. All grants require a nonfederal match of at least 1 to 1.

Application Deadline: July 12, 2018

For more information, view the Art Works Guidelines Workshop [webinar](#).



NEA Creative Writing Fellowships

The [National Endowment for the Arts \(NEA\) Literature Fellowships](#) program offers \$25,000 grants in prose (fiction and creative nonfiction) and poetry to published creative writers that enable recipients to set aside time for writing, research, travel, and general career advancement. Applications are reviewed through an anonymous process in which the only criteria for review are artistic excellence and artistic merit. To review the applications, the NEA assembles a different advisory panel every year, each diverse with regard to geography, race and ethnicity, and artistic points of view. The NEA Literature Fellowships program operates on a two-year cycle with fellowships in prose and poetry available in alternating years. **For FY 2019, which is covered by these guidelines, fellowships in poetry are available.** Fellowships in prose (fiction and creative nonfiction) will be offered in FY 2020 and guidelines will be available in January 2019. You may apply only once each year. Competition for fellowships is extremely rigorous; typically, they receive more than 1,000 applications each year in this category.

Application Deadline: March 7, 2018



USDA-NIFA Women and Minorities in Science, Technology, Engineering, and Mathematics Fields Program (WAMS)

The [Women and Minorities in Science, Technology, Engineering, and Mathematics Fields Program](#) supports research and extension projects that have robust collaborations to increase the participation of women and underrepresented minorities from rural areas in science, technology, engineering, and mathematics fields that are relevant to USDA priorities identified by the Secretary: (i) Promotion of a safe, sufficient, and nutritious food supply for all Americans and for people around the world; (ii) Sustainable agricultural policies that foster economic viability for small and mid-sized farms and rural businesses, protect natural resources, and promote value-added agriculture; (iii) National leadership in climate change mitigation and adaptation; (iv) Building a modern workplace with a modern workforce; and (v) Support for 21st century rural communities.

Application Deadline: Wednesday, March 28, 2018



NDSU Professor Invited to Present Grand Challenge Cancer Research at Northwestern University and Technical University Vienna

Dr. Kalpana Katti, NDSU Distinguished Professor of Civil and Environmental Engineering, discussed her research at a seminar at Northwestern University in Evanston, Illinois on January 31.

Her presentation, "Design of Engineering Testbeds for Prostate and Breast Cancer Metastasis," details the NDSU Grand Challenge Initiative work on the artificial bone scaffolds that create cancer tumors in advanced stages of metastasis enabling testing of anticancer drugs, better understanding of late-stage cancer progression, discovery of new biomarkers of metastasis and the development of new interventional technologies. This is the first time an *in vitro* model of cancer metastasis to bone has been developed at an advanced stage of metastasis. Prostate and breast

cancer metastasis to bone does not respond to treatments and often leads to patient death. After success with prostate cancer testbeds, the team has now also created a testbed for breast cancer metastasis.

Dr. Katti was also invited on November 11, 2017 to present an inauguration talk on “Engineering Test-Beds of Cancer Metastasis: Using Materials Science and Mechanobiological Routes” at the inauguration of the Vienna Center for Engineering in Medicine at Technical University Vienna and Medical University of Vienna.

NDSU Vice President for Research and Creative Activity Dr. Kelly A. Rusch stated, “Dr. Katti’s research has significant potential for the greater public good. The team’s results have already advanced cancer therapy science and they continue to expand their scope with additional discoveries. Their work will truly improve lives.”

The Katti group’s research on cancer testbeds has been presented at prestigious meetings and conferences around the world, and their work has received accolades from leading researchers. The team has been approached by several prominent research groups at leading universities around the country for collaborative research using the cancer Test-Beds.

Dr. Katti leads the NDSU Center for Engineered Cancer Test-Beds (CECT). The center is part of the university’s Grand Challenge Initiative, which is designed to use NDSU’s role as North Dakota’s land-grant, research university to create innovative research that will improve the lives of people in the state and around the world with collaborative, interdisciplinary research.



Gas Sorption System Added to Recharge Center

The Recharge Center’s Quantachrome Autosorb-1 gas sorption system has been repaired and is now available for use. Volume-pressure data measured by the system is converted by the software into BET surface area (single and/or multipoint), Langmuir surface area, adsorption and/or desorption isotherms, pore size and surface area distributions, micropore volume and surface area. The system operates by measuring the quantity of gas adsorbed onto or desorbed from a solid surface at some equilibrium vapor pressure by the static volumetric method. The data is obtained by admitting or removing a known quantity of adsorbate gas into or out of a sample cell containing the solid adsorbent maintained at a constant temperature below the critical temperature of the adsorbate. As adsorption or desorption occurs the pressure in the sample cell changes until equilibrium is established.



For more information on how this tool can help with your research, contact Greg Strommen (231-5339 greg.strommen@ndsu.edu) or visit the [Research Operations website](#).



NIH Policy on Single IRB (sIRB) Review of Multi-Site Research now in effect

The [National Institutes of Health \(NIH\) policy](#) on the use of single Institutional Review Board (IRB) for multi-site research went into effect January 25, 2018. This policy establishes the expectation that a single IRB (sIRB) of record will be used in the ethical review of non-exempt human subjects research funded by the NIH that is carried out at more than one U.S. site.

This policy applies to the domestic sites of NIH-funded multi-site studies where each site will conduct the same protocol involving non-exempt human subjects research, whether supported through grants, cooperative agreements, contracts, or the NIH Intramural Research Program. Applicants are expected to include a plan for the use of a sIRB in grant applications/proposals submitted to the NIH. The NIH’s acceptance of the submitted plan will be incorporated as a term and condition in the Notice of Award or in the Contract Award.



Proposal and Award Management Session #11

The next session in the Proposal and Award Management series will be held on **Thursday, February 15 from 11:00 – 11:45 a.m. in EML, Room 170**. The topic area for this meeting is Electronic Research Administration and Compliance (ERAC). NDSU is working with Novelution Corp. on a software solution for electronic research administration and compliance (ERAC) which will permit faculty and researchers to build their proposals in the system and electronically route proposals for necessary approvals/signatures.

These sessions are being offered monthly by Sponsored Programs Administration (SPA) and Grant & Contract Accounting (GCA). These sessions will provide information and training on topics that are relevant to various aspects of proposal submission and award management. Anyone that participates in any way or has an interest in proposal or budget development, routing and submission of proposals, processing or approving expenditures on awards (allowable costs, payroll, equipment, materials, etc.), overall award management, award compliance, locating funding opportunities, or electronic research administration is encouraged to attend. These sessions are open to all faculty, researchers, and staff. Materials from the sessions are available on the [Sponsored Programs Training](#) website.

Room 170 in EML is enabled with videoconferencing (IVN), so if you need to participate via IVN, please contact Faye Klein in SPA (231-8045 or faye.klein@ndsu.edu.) IVN participants will need to reserve their site and let Faye know so that SPA can set up for each requesting site. SPA will need the room name and the IP address no later than 10:00 a.m. the day prior to the session. Participants who cannot attend in person or via IVN may be able to connect in two other ways:

1. directly from their laptop or desktop computer using a specific software application, or
2. via an audio connection that can be added to the IVN event.

Participants via personal computer or audio-only will want to contact Faye as soon as possible to ensure adequate time for connections, configuration, and testing.

Note: Although Sessions are scheduled to be completed within 45 minutes, SPA and GCA representatives will be available for at least 15 minutes after each Session in order to answer any additional questions that participants may have.



Webinar: Specific Aims & Narrative Sections: Grab NIH Reviewers' Attention, Get Your Grant Funded

The Specific Aims Page and Narrative Sections can make or break reviewer interest and enthusiasm, and if they aren't written effectively, they can sink your grant application before it is read in detail. You are invited to attend this webinar to learn strategies for writing effective Specific Aims and Narrative sections to keep reviewer interest and improve your chances of being funded.

This webinar will be presented by Christopher Dant, a PhD-trained medical researcher and educator with over 40 years experience in government, academic, and biopharmaceutical settings. His PhD training was in immunology and cellular biology and he previously conducted research for several medical institutions in the United States. Dr. Dant was trained in grant writing at the NIH and was a former journal editor at JAMA.

Webinar: Specific Aims & Narrative Sections: Grab NIH Reviewers' Attention, Get Your Grant Funded

Presented by Christopher Dant, PHD // Principal Investigator Leader

Thursday, February 15, 2018 | 12:00 – 1:30 p.m. | EML Room 170

[Register Now!](#)



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