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Funding Opportunities for AA West Hub

Physical Sciences Opportunities

Major Research Instrumentation (MRI) NSF DUE January 22. An MRI proposal may request up to \$4 million for either acquisition or development of a research instrument. Each performing organization may submit in *revised* “Tracks” as defined below, *with no more than two submissions in Track 1 and no more than one submission in Track 2.*

- Track 1: Track 1 MRI proposals are those that request funds from NSF greater than or equal to \$100,000¹ and less than \$1,000,000.
- Track 2: Track 2 MRI proposals are those that request funds from NSF greater than or equal to \$1,000,000 up to and including \$4,000,000.

¹Track 1 proposals that request funds from NSF less than \$100,000 will be accepted only from a) all eligible organizations for the disciplines of mathematics or social, behavioral and economic sciences and b) from non-Ph.D.-granting institutions of higher education (ECU is one of these) for all NSF-supported disciplines. If you are considering a submission in either Track 1 or Track 2, please contact Dr. Mary Farwell, Assistant Vice-Chancellor for Academic Affairs Research, FARWELLM@ECU.EDU TEL: 252-328-9476.

IUSE/Professional Formation of Engineers: Revolutionizing Engineering Departments

(RED) DUE January 24 Revolutionizing Engineering Departments (hereinafter referred to as RED) is designed to build upon previous efforts in engineering education research. Specifically, previous and ongoing evaluations of the NSF Engineering Education and Centers Division program and its predecessors, as well as those related programs in the Directorate of Education and Human Resources, have shown that prior investments have significantly improved the first year of engineering students' experiences, incorporating engineering material, active learning approaches, design instruction, and a broad introduction to professional skills and a sense of professional practice – giving students an idea of what it means to become an engineer.

Materials Innovation Platforms (MIP) - NSF DUE February 4 Materials Innovation Platforms (MIP) is a mid-scale infrastructure program in the Division of Materials Research (DMR) designed to accelerate advances in materials research. MIPs respond to the increasing complexity of materials research that requires close collaboration of interdisciplinary and transdisciplinary teams and access to cutting edge tools. These tools in a user facility benefit both a user program and in-house research, which focus on addressing grand challenges of fundamental science and meet national needs.

Education Research Opportunities

NSF EHR Core Research DUE by January 24. The EHR Core Research program (ECR) invites proposals for fundamental research (basic research or use-inspired basic research) that advances knowledge in one or more of the three Research Tracks: Research on STEM Learning and Learning Environments, Research on Broadening Participation in STEM fields, and Research on STEM Workforce Development.

Funding Opportunities for AA West Hub

[Harnessing the Data Revolution \(HDR\): Data Science Corps \(DSC\) Building Capacity for](#)

[HDR – NSF DUE January 28 – February 4](#) Big Idea is a visionary, national-scale activity to enable new modes of data-driven discovery, allowing fundamentally new questions to be asked and answered in science and engineering frontiers, generating new knowledge and understanding, and accelerating discovery and innovation. The HDR vision is realized via a coordinated set of program solicitations resulting in an ecosystem of interrelated activities enabling (i) research in the foundations of data science; frameworks, algorithms, and systems for data science; and data-driven research in science and engineering; (ii) advanced cyberinfrastructure; and (iii) education and workforce development—all of which are designed to amplify the intrinsically multidisciplinary nature of the data science challenge. The HDR Big Idea will establish theoretical, technical, and ethical data science frameworks, and apply them to practical problems in science and engineering, and in society more generally. As a first step in establishing the Data Science Corps, this solicitation focuses specifically on enabling participation by undergraduate students in the Data Science Corps, by supporting student stipends for participation in data science projects and supporting integration of real-world data science projects into classroom instruction.

[Training-based Workforce Development for Advanced Cyberinfrastructure](#)

[\(CyberTraining\) – NSF DUE February 6](#) This program seeks to prepare, nurture, and grow the national scientific research workforce for creating, utilizing, and supporting advanced cyberinfrastructure (CI) to enable and potentially transform fundamental science and engineering research and contribute to the Nation's overall economic competitiveness and security. The goals of this solicitation are to (i) ensure broad adoption of CI tools, methods, and resources by the research community in order to catalyze major research advances and to enhance researchers' abilities to lead the development of new CI; and (ii) integrate core literacy and discipline-appropriate advanced skills in advanced CI as well as computational and data-driven science and engineering into the Nation's educational curriculum/instructional material fabric spanning undergraduate and graduate courses for advancing fundamental research. Pilot and Implementation projects may target one or both of the solicitation goals, while Large-scale Project Conceptualization projects must address both goals.

Environmental and Life Sciences

[Enabling Discovery through Genomic Tools \(EDGE\) - NSF DUE February 12](#) The Division of Integrative Organismal Systems (IOS) recognizes that a lack of methods for analysis of gene function represents an obstacle to progress in a range of diverse non-model organisms. These organisms are important for understanding numerous basic science questions in organismal biology as funded through the Division's core programs. Enabling Discovery through Genomic Tools (EDGE) is designed to provide support for development of tools, approaches and infrastructure necessary for direct tests of cause and effect hypotheses between gene function and phenotypes in diverse plants, animals, microbes, viruses and fungi for which these methods are presently unavailable.

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Humanities & Fine Arts

[Digital Humanities Advancement Grants – NEH](#) **DUE January 15** Supports digital projects at different stages throughout their lifecycles, from early start-up phases through implementation and sustainability. Experimentation, reuse, and extensibility are hallmarks of this program, leading to innovative work that can scale to enhance scholarly research, teaching, and public programming in the humanities.

[Faculty Reassignment Awards in the Arts and Humanities 2019-20 – REDE](#) **DUE March 4** **This internal opportunity** provides funds to departments to reassign faculty during the 2019-2020 academic year, and thus provide dedicated time for faculty to apply for fellowships, residencies, and grants in support of research and creative activities in the Arts and Humanities. This award “buys out” a faculty member’s teaching and service assignments (one three-credit-hour course) in either Fall 2019 or Spring 2020, creating additional time to prepare and submit a competitive application for extramural funding. While not required, collaborative efforts between faculty in Arts and Humanities disciplines and those in other disciplines are encouraged. Funds are paid directly to the department to hire replacement faculty to cover teaching assignments; faculty do not receive any compensation or funding. Summer stipends are not provided. [Refer here for full details.](#)

New Faculty Opportunities

[Ralph E. Powe Junior Faculty Enhancement Awards – ORAU](#) This is a **limited submission** with only two projects allowed per institution. Internal deadline **Jan. 2, 2019. ECU** to faculty in their first two years of appointment are eligible. ECU has had success in the last several years in this program, with awards to Erin Field, Jake Hochard and Rebecca Ashe. Budgets are limited to \$5000 from ORAU and \$5000 from the REDE Division, for a total of \$10,000. Please see below for documents, which constitutes the sponsor’s requirements, submitted by **Jan. 2, 2019** to farwellm@ecu.edu and shinpaughj@ecu.edu and be prepared to hear results by Jan. 3 to engage in the full RAMSeS and submission process. **The following is due by Jan 2 for internal consideration:**

1. **one-page** abbreviated **resume** in **PDF** format with a **second page** listing **publications and/or presentations and,**
2. two-page **research proposal** that should address the following:
 - research goals and objectives and relevant background
 - expected research outcomes and relevance
 - research design and methodology
 - competence of the applicant to perform the proposed research
 - the available research facilities and resources
 - a budget justification
 - (optional) an additional single page of **references** relating to the proposal.

Social and Behavioral Sciences

[National Issues Forum – Taylor L. Willingham Legacy Fund Grants](#) **DUE January 15** Plan for kickstart a public engagement project in the community! Grants are provided to individuals to

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enable them to develop an understanding of deliberative democracy and launch one or more deliberative dialogues in their communities and organizations in order to advance NIFI's overall mission, which is to promote public deliberation about national issues.

[Political Science – NSF January 15](#) Supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institution.

Forthcoming Deadlines

[Academic Research Enhancement R15 NIH](#)

[ACS PRF Doctoral New Investigator Grant](#)

[Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science – NSF INCLUDES](#)

[New Investigators Research Grant – American Speech-Language-Hearing Foundation](#)

[Young Scholars Program - Foundation for Child Development](#)

Supplemental Support

[Research Supplements to Promote Diversity in Health-Related Research](#) on active NIH opportunities (Read the FOA).

Proposals Accepted at Any Time

[Atmospheric Chemistry – NSF](#)

[Division of Environmental Biology \(core programs\) \(DEB\) – NSF](#). **Posted 8-22-18. No deadline.** There are two tracks: the Core Track supportive of training on evolutionary and ecological processes; and the Rules of Life Track for research to advance our understanding for the Rules of Life by proposals that would not fit well within one division in the biological sciences directorate.

[Climate and Large-Scale Dynamics – NSF](#)

[Democracy Small Grants Program General Competition – U.S. Embassy Ukraine](#)

[Earth Sciences \(EAR/IF\) Instrumentation and Facilities Program - NSF](#)

[Facilitating Research at Primarily Undergraduate Institutions: Research in Undergraduate](#)

[Institutions \(RUI\) and Research Opportunity Awards \(ROA\) – NSF](#)

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[High-Risk Research in Biological Anthropology and Archaeology – NSF](#)

[Hydrologic Sciences Program – NSF](#)

[Increase Higher Education Attainment – Lumina Foundation](#) – LOI Year Round. Check out the [Grant Database](#)

[Long Term Research in Environmental Biology – NSF](#)

[National Energy Technology – DOE.](#)

[NSF/FDA Scholar-in-Residence at FDA](#)

[Veterans' Employment and Training – Stand Down Grant Award – Department of Labor.](#)

Other News

[NIH Success Rates](#) – Review the data on success rates or as Bob Porter says, “projects that passed the sniff test,” at the NIH: https://report.nih.gov/success_rates/

[Research & Discovery](#) – AA West HUB Website: <http://www.ecu.edu/cs-cas/oor/index.cfm>

Search Federal Agency Program Deadlines

Administration for Community Living: <https://www.acl.gov/grants>

NCBC Deadlines: <http://www.ncbiotech.org/research-grants/research-funding>

NEH Grant Deadlines: <http://www.neh.gov/grants>

HHS Grants Forecast: <https://forecast.grantsolutions.gov/index.cfm>

NIH Parent Announcements (For Unsolicited or Investigator-Initiated Applications): http://grants.nih.gov/grants/guide/parent_announcements.htm

NSF Due Dates: http://www.nsf.gov/funding/pgm_list.jsp?org=NSF&ord=date

US Department of Education: <http://www2.ed.gov/about/offices/list/ope/opeprogramguide.html>

US Department of Education Research IES: <https://ies.ed.gov/funding/index.asp#current>

US Department of Justice: <https://ojp.gov/funding/Explore/CurrentFundingOpportunities.htm>

NASA NSPIRES: [ROSES 2016](#)

NOAA Climate Program Office <http://cpo.noaa.gov/Grants>