

2018

ORDA Weekly Update, 2018 08 06

Office of Research Development and Administration

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Events & Deadlines

August 6, 2018

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Deadlines

Department of Education, Graduate Assistance in Areas of National Need (GAANN)

Purpose of Program: The GAANN Program provides grants to academic departments and programs of institutions of higher education (IHEs) to support graduate fellowships for students with excellent academic records who demonstrate financial need and plan to pursue the highest degree available in their course of study at the institution. Four broad areas have been designated as national needs in this round:

1. Computer and Information Sciences: cybersecurity, secure computer programming, and artificial intelligence.
2. Rebuilding the Nation's Infrastructure: professional engineers able to facilitate a wide range of infrastructure projects.
3. National Civic Literacy: American history and the Western traditions that gave rise to the American Republic.
4. Workforce Development: Professional Science Master's degrees, which allow individuals to gain knowledge and skills necessary to meet workforce demands through shorter-term programs that align with the needs of employers in the areas of computer and information sciences and in engineering.

<https://www2.ed.gov/programs/gaann/eligibility.html>

Next Deadline: August 29, 2018

Department of Defense, Defense Advanced Research Projects Agency, Resilient Anonymous Communication for Everyone (RACE)

Notice seeking applications to research the area of cryptographic and communication obfuscation techniques in order to build an anonymous, attack-resilient mobile communication system that can reside completely within a network environment.

<https://www.fbo.gov/index?s=opportunity>

Next Deadline: Abstracts due August 14, 2018 ; Full Proposals September 18, 2018

National Science Foundation, Secure and Trustworthy Cyberspace

In today's increasingly networked, distributed, and asynchronous world, cybersecurity involves hardware, software, networks, data, people, and integration with the physical world. Society's overwhelming reliance on this complex cyberspace, however, has exposed its fragility and vulnerabilities that defy existing cyber-defense measures: corporations, agencies, national infrastructure and individuals continue to suffer cyber-attacks. Achieving a truly secure cyberspace requires addressing both challenging scientific and engineering problems involving many components of a system, and vulnerabilities that stem from human behaviors and choices. Examining the fundamentals of security and privacy as a multidisciplinary subject can lead to fundamentally new ways to design, build and operate cyber systems, protect existing infrastructure, and motivate and educate individuals about cybersecurity.

<https://www.nsf.gov/pubs/2018/nsf18572>

Next Deadline: Proposals accepted anytime

Department of Energy, Machine Learning for Geothermal Energy

The U.S. Department of Energy's Geothermal Technology Office (GTO) Machine Learning for Geothermal Energy funding opportunity announcement (FOA) supports projects that will develop new analytical tools for finding and developing geothermal resources and establish the practice of machine learning in geothermal operations. The rapidly advancing field of Machine Learning (ML) offers substantial opportunities for technology advancement and cost reduction throughout the geothermal project lifecycle, from resource exploration to power plant operations.

Under this funding opportunity, GTO is interested in two topic areas: Topic 1: Machine Learning for Geothermal Exploration - GTO seeks projects that advance geothermal exploration through the application of machine learning techniques to geological, geophysical, geochemical, borehole, and other relevant datasets. Of particular interest to GTO are projects that will identify data acquisition targets and build community datasets for future work. Topic 2: Advanced Analytics for Efficiency and Automation in Geothermal Operations - GTO seeks projects that apply advanced analytics to power plant and other operator datasets, with the goal of improving operations and resource management.

<https://eere-exchange.energy.gov/> - Foaldbf185673-cdec-49cd-aabe-b152fd31e2d5

Next Deadline: White Papers due August 23, 2018 ; Full Applications November 1, 2018

National Endowment for the Humanities, Public Humanities Projects

Notice seeking applications to support projects that bring the ideas and insights of the humanities to life for general audiences through in-person programming. Projects must engage humanities scholarship to analyze significant themes in disciplines such as history, literature, ethics, and art history.

<https://www.neh.gov/grants/public/public-humanities-projects>

Next Deadline: August 29, 2018

National Institutes of Health, Diet and Physical Activity Assessment Methodology (R01 and R21, Clinical Trial Not Allowed)

Notice seeking applications to enhance the quality of measurements of dietary intake and physical activity. Projects may include development of: novel assessment approaches; better methods to evaluate instruments; assessment tools for culturally diverse populations or various age groups, including children and older adults; improved technology or applications of existing technology; statistical methods/modeling to improve assessment and/or to correct for measurement errors or biases; methods to investigate the multidimensionality of diet and physical activity behavior through pattern analysis; or integrated measurement of diet and

physical activity along with the environmental context of such behaviors. Both R01 and R21 funding mechanisms are available.

<https://grants.nih.gov/grants/guide/pa-files/PA-18-856.html> (R01)

<https://grants.nih.gov/grants/guide/pa-files/PA-18-857.html> (R21)

Next Deadline: R01, October 5, 2018 ; R21, October 16, 2018

Department of Defense, Improved Networking Through Embedded Processing and Sensing

Notice seeking white papers for research, design, development, test, evaluation and experimentation of innovative technologies and techniques for Improved Networking through Embedded Processing and Sensing. The objective is to develop, demonstrate, and evaluate new sources and methods for improving network connectivity and stability through embedded processing and sensing. This effort is expected to provide research and development activities to enhance warfighter mission capabilities and advance baseline performance beyond what is currently considered satisfactory.

<https://www.fbo.gov/index?s=opportunity>

Next Deadline: White papers due November 1, 2018

National Science Foundation, Astronomy and Astrophysics Research Grants

The Astronomy and Astrophysics Research Grants (AAG) Program is an inclusive and flexible funding opportunity to support research in the astronomical sciences. The Program provides individual investigator and collaborative research grants for observational, theoretical, laboratory, and archival data studies in astronomy and astrophysics. The Program also considers proposals for projects and tools that enable or enhance astronomical research. Proposals may span multiple disciplines and/or areas of study and may utilize multiple techniques.

<https://www.nsf.gov/pubs/2018/nsf18575/>

Next Deadline: November 15, 2018

National Science Foundation, Advanced Technologies and Instrumentation

The Advanced Technologies and Instrumentation (ATI) program provides individual investigator and collaborative research grants for development of new technologies and instrumentation for astronomy and astrophysics. The program supports overarching science objectives of the Division of Astronomical Sciences. Development of innovative, potentially transformative technologies are encouraged, even at high technical risk. Supported categories include but are not limited to: advanced technology development or concept feasibility studies and specialized instrumentation to enable new observations that are difficult or impossible to obtain with existing means. Proposals may include hardware and/or software development and/or analysis to enable new types of astronomical observations. The program encourages

making products of research available to the public. It also encourages community coordination of technology and instrumentation development efforts via an annual Principal Investigators meeting.

<https://www.nsf.gov/pubs/2018/nsf18576/nsf18576.htm>

Next Deadline: November 15, 2018

Internal Awards

James H. Brickley Award

The purpose of the James H. Brickley Award is to facilitate faculty professional development and innovation through a broad range of activities, including but not limited to, things such as:

- Reassigned time from teaching for scholarly, creative and innovative endeavor
- Conference presentations
- Travel
- Hiring of research assistants
- Purchase of special equipment or supplies for teaching, scholarly, research, creative, or innovative activities
- Development of a grant proposal for external funding
- Similar or related academic activities

Special emphasis is given to innovation, such as the application of newer techniques and technologies for creating mental health programs for immigrants, providing special workshops for parents with autistic children, or working with students, parents, teachers, and community leaders in addressing drug addiction.

<https://www.emich.edu/research/development/funding/brickley.php>

Next Deadline: October 2, 2018

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