

2018

## ORDA Weekly Update, 2018 04 16

Office of Research Development and Administration

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### Recommended Citation

Office of Research Development and Administration, "ORDA Weekly Update, 2018 04 16" (2018). *ORDA Weekly Update*. 54.  
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# Office of Research Development and Administration

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## Events and Deadlines

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April 16, 2018

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### Fiscal Year 2018 Omnibus Spending Bill

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From the Grants Resource Center GrantWeek:

#### FY 18 Spending Bill Halts AHRQ Downward Trend

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By Richard Wellons

The recently passed [omnibus spending bill](#) provided a boost to the Agency for Healthcare Research and Quality (AHRQ), halting a nearly decade-long trend of cuts. As shown in the [AHRQ 2009-2017 Appropriation History Table](#), the agency committed to "making health care safer, higher quality, more accessible, equitable, and affordable" had received a steady flow of budget cuts dating back to 2009. While the Trump Administration had hoped to [fold the agency](#) into the National Institutes of Health in its [FY 18 request](#) (and continues to push for this in its [FY 19 request](#)), Congress is resisting and has appropriated \$334 million for AHRQ in FY 18 - a \$10 million (3.1 percent) increase over AHRQ's FY 17 funding level.

#### **Deadlines**

#### National Science Foundation, Dear Colleague Letter Real-Time Learning and Decision-Making in Engineered Systems (Real-D)

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Real-time learning and decision-making in engineering systems will play an increasingly critical role in modern engineering systems and infrastructures, including the smart grid, transportation and mobility, water distribution systems, healthcare logistics and delivery systems, advanced manufacturing, chemical and biological process systems, sensor networks, sustainable buildings, smart and connected communities, and dynamic control of transport processes.

While complex engineering systems incorporate first principles based on physical models, they may not make full use of relevant information from real-time data. Exclusively data-driven approaches to complex engineering systems may lead to incorrect and uninformed decisions as they do not incorporate useful information from the engineering and physical models. A hybrid approach that uses real-time data, in conjunction with basic physical and engineering constraints, has the promise to overcome these limitations and can lead to significantly improved decision capabilities. With this Dear Colleague letter (DCL), the Directorate for Engineering of the National Science Foundation announces its interest in receiving Early-Concept Grants for Exploratory Research (EAGER) proposals to support research in fundamental theory, algorithms, engineering principles, and applications for real-time learning and decision-making that may lead the way toward safe, reliable, and efficient data-enabled engineering systems. To encourage convergence research, proposals are expected to have (PI)s that (has)have complementary expertise and significant research background in: the domain of the specific engineering infrastructure systems under consideration; and in machine learning, optimization, systems modeling and control and/or data science.

<https://www.nsf.gov/pubs/2018/nsf18063>

Next Deadline: No deadline but for FY2018 funding, submit by June 1, 2018

### National Institutes of Health, Research on the Health of Transgender and Gender Nonconforming Populations (R01; R21, Clinical Trial Optional)

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This funding opportunity announcement (FOA) calls for research on the health of transgender and gender nonconforming people of all ages, including both youth and adults who are questioning their gender identity and those individuals who are making or who have made a transition from being identified as one gender to the other. This group encompasses individuals whose gender identity differs from the sex on their original birth certificate or whose gender expression varies significantly from what is traditionally associated with or typical for that sex.

<https://grants.nih.gov/grants/guide/pa-files/PA-18-729.html>

Next Deadline: June 5, 2018 (R01), June 16 2018 (R21)

### National Institutes of Health, Improving Patient Adherence to Treatment and Prevention Regimens (R01; R21 Clinical Trial Optional)

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This funding opportunity announcement (FOA) is being issued by the NIH Adherence Network through the Office of Behavioral and Social Sciences Research (OBSSR) with participation from multiple NIH Institutes and Centers. This FOA calls for research grant applications that address patient adherence to treatment and prevention regimens to promote health outcomes. Applications may address healthcare regimen initiation, implementation, and/or persistence by patients. Descriptive and intervention research may address adherence determinants at one or more levels of ecologic influence, including the patient, caregiver/family, provider and/or healthcare system, and community levels. Attention to scientific rigor in all applications is

paramount, with emphasis on appropriate sample sizes, valid outcome measures, and testing intervention mechanisms of action. The specific research interests of participating NIH Institutes and Centers are detailed within. This FOA accepts applications that either propose or do not propose a clinical trial(s).

<https://grants.nih.gov/grants/guide/pa-files/PA-18-722.html>

Next Deadline: June 5, 2018 (R01), June 16 2018 (R21)

### National Institutes of Health, Exploratory/Developmental Clinical Research Grants in Obesity (R21, Clinical Trial Optional)

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This Funding Opportunity Announcement (FOA) encourages research grant applications from institutions/organizations that propose to conduct exploratory/developmental clinical studies that will accelerate the development of effective interventions for prevention or treatment of overweight or obesity in adults and/or children. Exploratory epidemiological research with a goal of informing translational/clinical research will also be supported within this program.

<https://grants.nih.gov/grants/guide/pa-files/PA-18-720.html>

Next Deadline: June 16, 2018

### National Science Foundation, STEM + Computing K-12 Education (STEM+C)

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The STEM+C Program focuses on research and development of interdisciplinary and transdisciplinary approaches to the integration of computing within STEM teaching and learning for preK-12 students in both formal and informal settings. The STEM+C program supports research on how students learn to think computationally to solve interdisciplinary problems in science and mathematics. The program supports research and development that builds on evidence-based teacher preparation or professional development activities that enable teachers to provide excellent instruction on the integration of computation and STEM disciplines. Proposals should describe projects that are grounded in prior evidence and theory, are innovative or potentially transformative, and that will generate and build knowledge about the integration of computing and one or more STEM disciplines at the preK-12 level.

<https://www.nsf.gov/funding/>

Next Deadline: July 2, 2018

### National Science Foundation, Accelerating Discover: Educating the Future STEM Workforce

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A well-prepared, innovative science, technology, engineering, and mathematics (STEM) workforce is crucial to the Nation's prosperity and security. In response to this need, the NSF's Education and Human Resources Directorate seeks to invest in projects that can educate the STEM workforce to advance discovery in the six research Big Ideas: Harnessing the Data Revolution; The Future of Work; Navigating the New Arctic; Multi-messenger Astrophysics; The Quantum Leap; and Understanding the Rules of Life. In addition to developing and

implementing novel educational and/or training programs, these projects should simultaneously generate new knowledge about effective STEM education, by studying such programs and exploring related issues.

Specifically, NSF accepts proposals to support education research and development projects focused on re- or up-skilling the existing workforce; developing the skilled technical workforce; and/or preparing those at the undergraduate, graduate, or postdoctoral fellow/early career levels. We encourage projects to partner with industry, public, and private sectors to define the needs of tomorrow's workforce and develop educational and learning strategies to meet those needs. Proposals should address near-, mid-, and long-term challenges and opportunities facing the development of STEM professionals or anticipate new structures and functions of the STEM learning and teaching enterprise. Proposers are encouraged to include approaches that have the potential to increase and diversify participation in STEM. All proposals should contribute to one or more of the six research Big Ideas.

<https://www.nsf.gov/funding/>

Next Deadline April 2 2018 through January 16, 2019; July 2, 2018 for FY2018 funding

### National Science Foundation Faculty Early Career Development Program

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Agency-wide program provides NSF's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education, and the integration of education and research within the context of their organizations' mission. Awards build a firm foundation for a lifetime of leadership in integrating education and research. BIO, CISE, EHR, proposals due 7/18; ENG proposals due 7/19; and GEO, MPS, SBE proposals due 7/20.

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503214](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214)

Next Deadline: July 18, 2018

### National Endowment for the Humanities, Humanities Collections and Reference Resources

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Grants support projects that address major challenges in preserving/providing intellectual access to humanities resources. NEH encourages digital projects that codify, unite, integrate, or aggregate humanities collections and resources. Projects may also develop a reference work or tool or integrate tools and reference works with digital collections to provide context to humanities materials and to facilitate discovery. Supports implementation awards up to \$350,000 (3 years) and foundations planning awards up to \$50,000 (2 years).

<https://www.neh.gov/grants/preservation/humanities-collections-and-reference-resources>

Next Deadline: July 19, 2018

### Statistical Consultation

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ORDA welcomes back Dr. Grigoris Argeros (Sociology Anthropology Criminology) and Dr. Kathy Chu (Mathematics) as Faculty Associates for research statistics. Consultation is available for faculty, as well as graduate students working with faculty on independent research projects and theses with the goal of publication of results.

Contact [Orda\\_stats@emich.edu](mailto:Orda_stats@emich.edu) for more information or to schedule an appointment.

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## Contact Us

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Caryn Charter, Director

Office of Research Development and Administration

Eastern Michigan University

200 Boone Hall

Ypsilanti, Michigan 48197

Phone: 734.487.3090