

Funding Notice

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Arts & Humanities

LIMITED SUBMISSION: National Endowment for the Arts (NEA): Challenge America. The Challenge America category 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. This category encourages and supports the following two objectives: 1) Engagement: Engaging the public with diverse and excellent art; 2) Livability: The strengthening of communities through the arts. You will be asked to select the objective that is most relevant to your project. When making selections, you should identify the objective(s) that reflect the results expected to be achieved by your project. If you receive a grant, you also will be asked to provide evidence of those results. Challenge America grants: 1) extend the reach of the arts to underserved populations; 2) are limited to the specific types of projects outlined below; 3) are for a fixed amount of \$10,000 and require a minimum \$10,000 match. 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 appropriate to their project. Due: 04/16/2015. Link: <http://arts.gov/grants-organizations/challenge-america/grant-program-description>

LIMITED SUBMISSION: National Endowment for the Arts (NEA): Art Works. The guiding principle of "Art Works" is at the center of everything we do at the NEA. "Art Works" refers to three things: the works of art themselves, the ways art works on audiences, and the fact that art is work for the artists and arts professionals who make up the field. Art works by enhancing the value of individuals and communities, by connecting us to each other and to something greater than ourselves, and by empowering creativity and innovation in our society and economy. The arts exist for beauty itself, but they also are an inexhaustible source of meaning and inspiration. The NEA recognizes these catalytic effects of excellent art, and the key role that arts and design organizations play in revitalizing them. To deepen and extend the arts' value, including their ability to foster new connections and to exemplify creativity and innovation, we welcome projects that 1) are likely to prove transformative with the potential for meaningful change, whether in the development or enhancement of new or existing art forms, new approaches to the creation or presentation of art, or new ways of engaging the public with art; 2) are distinctive, offering fresh insights and new value for their fields and/or the public through unconventional solutions; and 3) have the potential to be shared and/or emulated, or are likely to lead to other advances in the field. Beyond encouraging projects that demonstrate these characteristics, we want to achieve the following four objectives through the Art Works category:

- Creation: The creation of art that meets the highest standards of excellence,
- Engagement: Public engagement with diverse and excellent art,
- Learning: Lifelong learning in the arts, and
- Livability: The strengthening of communities through the arts.

Due: 07/23/2015. Link: <http://arts.gov/grants-organizations/art-works/grant-program-description>

National Endowment for the Humanities (NEH): Bridging Cultures through Film: International Topics. NEH's Division of Public Programs supports activities that engage millions of Americans in understanding significant humanities works and ideas. The Bridging Cultures through Film: International Topics program supports films that examine international themes and subjects in the humanities. The films are meant to spark Americans' engagement with the broader world by exploring countries and cultures outside of the United States. The Division of Public Programs encourages innovative nonfiction

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storytelling that presents multiple points of view in creative formats. At the center of every NEH-funded film is a core set of humanities ideas developed by scholars, matched to imaginative formats that bring the humanities alive for people of all ages and all walks of life. The proposed film must be analytical and deeply grounded in humanities scholarship. It may be as short as thirty minutes or as long as a feature-length film. We invite a wide range of approaches to international and transnational topics and themes, such as: 1) an examination of a critical issue in ethics, religion, literature, or history, viewed through an international lens; 2) an exploration of a topic that transcends a single nation-state; 3) a biography of a foreign leader, writer, artist, or historical figure; or 4) an exploration of the history and culture(s) of a specific region, country, or community outside of the United States. Due: 06/10/2015. Link: <http://www.neh.gov/grants/public/bridging-cultures-through-film-international-topics>

National Endowment for the Humanities (NEH): Challenge Grants. The mission of the NEH Office of Challenge Grants is to advance knowledge and understanding in the humanities by strengthening the institutional base of humanities teaching, scholarly research, public programming, and other humanities activities. Challenge grants are capacity-building grants, intended to support significant humanities activities of high intellectual quality and to help institutions secure long-term support for their humanities programs. Through these grants many organizations and institutions have been able to increase their humanities capacity and secure the permanent support of an endowment. Grants may be used to establish or enhance endowments or spend-down funds that generate expendable earnings to support and enhance ongoing program activities. Challenge grants may also provide capital directly supporting the procurement of long-lasting objects, such as acquisitions for archives and collections, the purchase of equipment, and the construction or renovation of facilities needed for humanities activities. Funds spent directly must be shown to bring long-term benefits to the institution and to the humanities more broadly. Grantee institutions may also expend up to 10 percent of total grant funds (federal funds plus matching funds) to defray costs of fundraising to meet the NEH challenge. Because of the matching requirement, these NEH grants also strengthen the humanities by encouraging nonfederal sources of support. Due: 05/05/2015. Link: <http://www.neh.gov/grants/challenge/challenge-grants>

National Endowment for the Humanities (NEH): Digital Humanities Start-Up Grants. The Digital Humanities Start-Up Grants program awards relatively small grants to support the planning stages of innovative projects that promise to benefit the humanities. Proposals should be for the planning or initial stages of digital initiatives in any area of the humanities. Digital Humanities Start-Up Grants may involve: 1) research that brings new approaches or documents best practices in the study of the digital humanities; 2) planning and developing prototypes of new digital tools for preserving, analyzing, and making accessible digital resources, including libraries' and museums' digital assets; 3) scholarship that focuses on the history, criticism, and philosophy of digital culture and its impact on society; 4) scholarship or studies that examine the philosophical or practical implications and impact of the use of emerging technologies in specific fields or disciplines of the humanities, or in interdisciplinary collaborations involving several fields or disciplines; 5) innovative uses of technology for public programming and education incorporating both traditional and new media; and 6) new digital modes of publication that facilitate the dissemination of humanities scholarship in advanced academic as well as informal or formal educational settings at all academic levels. Innovation is a hallmark of this grant category, which incorporates the "high risk/high reward" paradigm often used by funding agencies in the sciences. NEH is requesting proposals for projects that take some risks in the pursuit of innovation and excellence. Digital Humanities Start-Up Grants should result in plans, prototypes, or proofs of concept for long-term digital humanities projects prior to implementation. Due: 09/16/2015. Link: <http://www.neh.gov/grants/odh/digital-humanities-start-grants>

National Endowment for the Humanities (NEH): Digital Projects for the Public. NEH's Division of Public Programs supports activities that engage millions of Americans in understanding significant humanities works and ideas. At the center of every NEH-funded public humanities project is a core set of humanities ideas developed by scholars, matched to imaginative formats that bring humanities ideas alive for people of all ages and all walks of life. The Digital Projects for the Public



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program supports projects such as websites, mobile applications, games, and virtual environments that significantly contribute to the public's engagement with humanities ideas. Projects must be analytical and deeply grounded in humanities scholarship in a discipline such as history, religion, anthropology, jurisprudence, or art history. Digital Projects for the Public grants support projects that are largely created for digital platforms. While these projects can take many forms, shapes, and sizes, you should apply to this program primarily to create digital projects or the digital components of a larger project. NEH is a national funding agency, so these projects should demonstrate the potential to attract a broad, general audience. Projects can have specific targeted audiences (including K-12 students), but they should also strive to cultivate a more inclusive audience. Due: 06/10/2015. Link: <http://www.neh.gov/grants/public/digital-projects-the-public>

Office of Innovation and Improvement/Department of Education: Arts in Education National Program. The Arts in Education National Program supports national-level, high-quality Arts education activities and services for children and youth, with special emphasis on serving children from low-income families and children with disabilities. Due: 03/12/2015, 04/13/2015. Link: <http://www.gpo.gov/fdsys/pkg/FR-2015-02-10/pdf/2015-02596.pdf>

Education, Health, Social Science, & Service

National Science Foundation (NSF): Cyberlearning and Future Learning Technologies (Cyberlearning). The purpose of the Cyberlearning and Future Learning Technologies program is to integrate opportunities offered by emerging technologies with advances in what is known about how people learn to advance three interconnected thrusts: 1) Innovation: inventing and improving next-generation genres (types) of learning technologies, identifying new means of using technology for fostering and assessing learning, and proposing new ways of integrating learning technologies with each other and into learning environments to foster and assess learning; 2) Advancing understanding of how people learn in technology-rich learning environments: enhancing understanding of how people learn and how to better foster and assess learning, especially in technology-rich learning environments that offer new opportunities for learning and through data collection and computational modeling of learners and groups of learners that can be done only in such environments; and 3) Promoting broad use and transferability of new genres: extracting lessons from experiences with these technologies that can inform design and use of new genres across disciplines, populations, and learning environments; advancing understanding of how to foster learning through effective use these new technologies and the environments they are integrated into. The intention of this program is to advance technologies that specifically focus on the experiences of learners; innovations that simply focus on making teaching easier will not be funded. Proposals that focus on teachers or facilitators as learners are invited; the aim in these proposals should be to help teachers and facilitators learn to make the learning experiences of learners more effective. Proposals are expected to address all three of the program's thrusts. Of particular interest are technological advances that (1) foster deep understanding of content coordinated with masterful learning of practices and skills; (2) draw in and encourage learning among populations not served well by current educational practices; and/or (3) provide new ways of assessing understanding, engagement, and capabilities of learners. It is expected that research funded by this program will shed light on how technology can enable new forms of educational practice. This program does not support proposals that aim simply to implement and evaluate a particular software application or technology in support of a specific course. Awards will be made in three research categories, each focusing on a different stage of research and development: Exploration (EXP), Design and Implementation (DIP), and Integration (INT). The program will also support small Capacity-Building Projects (CAP), e.g., conferences, workshops, and partnership-building activities, and will continue to participate in NSF's Foundation-Wide programs: EAGER, RAPID, INSPIRE, and CAREER. Due: 03/27/2015. Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504984



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Environmental Protection Agency (EPA): FY 2015 National Priority Activities for the Section 303(d) Program, the Nonpoint Source (Section 319) Program, the Wetlands Program, and the Water Quality Monitoring Program. The U.S.

Environmental Protection Agency (EPA) is soliciting proposals from eligible applicants to provide support for training and technical assistance activities to build the capacity of state and tribal officials and nongovernmental stakeholders in the Clean Water Act (CWA) Section 303(d) Program, the Nonpoint Source (CWA Section 319) Program, the Wetlands Program, and the Water Quality Monitoring Program. Due: 03/24/2015. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=273251>

Assistant Secretary for Health/DHHS: PV Provider Network: Engaging the Health Care Provider Response to Interpersonal Violence against Women. The mission of the Office on Women's Health (OWH) is to provide national leadership and coordination to improve the health of women and girls through policy, education and innovative model programs. The Department of Health and Human Services has identified violence prevention as a major goal for improving health across several initiatives, including Healthy People. Further efforts are needed to ensure that all aspects of the health care system respond appropriately to women and girls who are victims of interpersonal violence. According to data from the CDC, women are disproportionately affected by intimate partner violence, sexual violence, and stalking; and victims experience many negative impacts and health consequences. Preliminary work supported by OWH highlighted the need for more collaborative violence prevention and health-related programs and projects. Previous work sponsored by OWH has illustrated the need to connect health care providers and public health programs to IPV programs. Strategies have included train-the-trainer methods, clear messaging, and development of services. OWH work also supports the importance of including geographically and ethnically diverse sites to maximize impact and social responsibility to underserved populations. Across all strategies and sites, the over-riding goal has been to develop the connection and support the linkage between systems that provide health care services and IPV programs for women. The next step is to test models that implement the linkages using robust methodologies to test interventions and evaluate programs. Due: 05/12/2015. Link: <https://www.grantsolutions.gov/gs/preaward/previewPublicAnnouncement.do?id=50841>

Department of Health & Human Services: **Workforce Training to Educate Health Care Professionals in Health Information Technology.** This funding opportunity will establish 5-7 cooperative agreements to update materials and develop a training program to further the Workforce Training Programs Community College Consortia to Educate Health Information Technology Professionals in Health Care and the Curriculum Development Centers cooperative agreement programs funded under the American Recovery and Reinvestment Act of 2009 (Recovery Act), Public Law 111-5. The purpose of the Workforce Training Program is to provide assistance to institutions of higher education, or consortia thereof, to establish or expand medical health informatics education programs to promote the rapid and effective utilization and development of health information technologies. Due: 04/06/2015. Link: <http://www.grants.gov/view-opportunity.html?oppld=272814>

National Science Foundation: Research Traineeship (NRT) Program. The NSF Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate education training. The NRT program seeks proposals that ensure that graduate students in research-based master's and doctoral degree programs develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The NRT program includes two tracks: the Traineeship Track and the Innovations in Graduate Education (IGE) Track. The Traineeship Track is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, aligned with changing workforce and research needs, and scalable. For this solicitation the Traineeship Track has one priority interdisciplinary research theme Data-Enabled Science and Engineering (DESE); proposals are encouraged also on any non-DESE interdisciplinary research theme that is a national priority. The IGE Track is dedicated solely to piloting, testing, and evaluating novel, innovative, and potentially transformative approaches to graduate education, both disciplinary and interdisciplinary, to generate the knowledge required for their customization, implementation, and broader

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adoption. Whereas the Traineeship Track promotes building on the current knowledge base to more effectively train STEM graduate students, the IGE Track supports test-bed projects with high potential to enrich, improve, and extend the knowledge base with attention to transferability and innovation. For both tracks, strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, museums, and academic partners are encouraged. Due: 05/06/2015, 02/22/2016. Link:

<http://www.nsf.gov/pubs/2015/nsf15542/nsf15542.htm>

Department of Health & Human Services: *Community Health Peer Learning Program*. The purpose of this FOA is to address health challenges at the population level through a community-based collaborative approach. The Community Health Peer Learning Program supports HHS efforts to promote the development of a nationwide health information infrastructure built on the sustainable efforts of local providers and communities. Due: 04/06/2015.

Link: <http://www.grants.gov/view-opportunity.html?oppld=272811>

National Science Foundation: *Promoting Research and Innovation in Methodologies for Evaluation*. The Promoting Research and Innovation in Methodologies for Evaluation (PRIME) program seeks to support research on evaluation with special emphasis on: exploring innovative approaches for determining the impacts and usefulness of STEM education projects and programs; building on and expanding the theoretical foundations for evaluating STEM education and workforce development initiatives, including translating and adapting approaches from other fields; and growing the capacity and infrastructure of the evaluation field. Three types of proposals will be supported by the program: Exploratory Projects that include proof-of-concept and feasibility studies; more extensive Full-Scale Projects; and conferences. Due:

04/30/2015. Link: <http://www.nsf.gov/pubs/2015/nsf15540/nsf15540.htm>

Science, Technology, Engineering, & Mathematics

National Science Foundation: *Industry/University Cooperative Research Centers Program (I/UCRC)*. The Industry/University Cooperative Research Centers (I/UCRC) program develops long-term partnerships among industry, academe, and government. The centers are catalyzed by a small investment from the National Science Foundation (NSF) and are primarily supported by industry center members, with NSF taking a supporting role in the development and evolution of the center. Each center is established to conduct research that is of interest to both the industry members and the center faculty. An I/UCRC contributes to the nation's research infrastructure base and enhances the intellectual capacity of the engineering and science workforce through the integration of research and education. As appropriate, an I/UCRC uses international collaborations to advance these goals within the global context. Letter of Intent Due: 06/26/2015. Full Proposal Due: 09/25/2015. Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5501

National Eye Institute/NIH/DHHS: *New Concepts and Early- Stage Research for Large-Scale Recording and Modulation in the Nervous System (R21)*. National Institutes of Health (NIH) and its participating Institutes and Centers invite applications for technology at an even earlier stage of development than previous BRAIN FOAs which sought to develop novel technology (RFA-NS-15-003) or to optimize existing technology ready for in-vivo proof-of-concept testing and collection of preliminary data (RFA-NS-15-004). It seeks new and untested ideas that are in the very earliest stages. The support provided might enable calculations, simulations, computational models, or other mathematical approaches for demonstrating that the signal sources and/or measurement technologies are theoretically capable of meeting the demands of large-scale recording or manipulation of circuit activity. The support might also be used for building and testing phantoms, prototypes, in-vitro or other bench-top models in order to validate underlying theoretical assumptions in preparation for future FOAs aimed at testing in animal models. Invasive or non-invasive approaches are sought that will



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ultimately enable or reduce the current barriers to large-scale recording or manipulation of neural activity, and that would be compatible with experiments in humans or behaving animals. Applications are encouraged from any qualified individuals, including physicists, engineers, theoreticians, and scientists, especially those not typically involved with neuroscience research. This program will use the NIH Exploratory/Developmental (R21) grant mechanism. Due: 04/16/2015. Link: <http://grants.nih.gov/grants/guide/rfa-files/RFA-EY-15-001.html>

National Institute of Allergy and Infectious Diseases/NIH/DHHS: *Role of Exosomes in HIV Pathogenesis (R21)*. National Institute of Allergy and Infectious Diseases (NIAID) and National Institute of Mental Health (NIMH) invite applications new research on the potential role of exosomes in cell-to-cell communication relevant to HIV transmission, innate or adaptive immune responses to HIV, or HIV pathogenesis. This program will use the NIH Exploratory/Developmental (R21) grant mechanism. Due: 05/07/2015, 06/16/2015, 09/07/2015, Various. Link: <http://grants.nih.gov/grants/guide/pa-files/PA-15-107.html>

National Science Foundation: *Professional Formation of Engineers (PFE: RIEF) Research Initiation in Engineering Formation*. The NSF Engineering (ENG) Directorate has launched a multi-year initiative, the Professional Formation of Engineers, to create and support an innovative and inclusive engineering profession for the 21st Century. Professional Formation of Engineers (PFE) refers to the formal and informal processes and value systems by which people become engineers. It also includes the ethical responsibility of practicing engineers to sustain and grow the profession. The engineering profession must be responsive to national priorities, grand challenges, and dynamic workforce needs; it must be equally open and accessible to all. Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for the process of professional formation of future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering formation. The Professional Formation of Engineers: Research Initiation in Engineering Formation (PFE: RIEF) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the social and/or learning sciences to address difficult, boundary-spanning problems in the professional formation of engineers. Due: 04/30/2015, 03/31/2016. Link: <http://www.nsf.gov/pubs/2015/nsf15539/nsf15539.htm>

National Science Foundation: *Basic Research to Enable Agricultural Development (BREAD)*. The Basic Research to Enable Agricultural Development (BREAD) Program was established in 2009 as a National Science Foundation (NSF) program supported in partnership with the Bill & Melinda Gates Foundation (BMGF). The goal of BREAD is to support innovative basic scientific research designed to address key constraints to smallholder agriculture in the developing world. Proposals submitted to BREAD must make a clear and well-defined connection between the outcomes of the proposed basic research and its direct relevance and potential application to agriculture in the developing world. Due: 04/27/2015. Link: <http://www.nsf.gov/pubs/2015/nsf15538/nsf15538.htm>

Office of Research Infrastructure Programs/NIH/DHHS: *Resource-Related Research Projects for Development of Animal Models and Related Materials (R24)*. Office of Research Infrastructure Programs (ORIP) invites applications aimed at developing, characterizing or improving animal models of human diseases or improving diagnosis and control of diseases of laboratory animals. The animal models and related materials to be developed must address the research interests of two or more of the categorical NIH Institutes and Centers. In addition, projects that predominantly address the research interests of one NIH Institute or Center, but that are peripherally related to the research interests of other Institutes and Centers will not be considered appropriate for this FOA. An example of an inappropriate request is one exclusively involving an animal model of cancer. This FOA will utilize the R24 grant mechanism. Due: 05/07/2015, 05/25/2015, 09/07/2015, 09/25/2015. Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-13-253.html>



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Office of Research Infrastructure Programs/NIH/DHHS: *Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R24)*. Office of Research Infrastructure Programs (ORIP) invites applications aimed at characterizing animal stem cells and improving existing, and creating new, animal models for human disease conditions. The intent of this initiative is to facilitate the use of stem cell-based therapies for regenerative medicine. The initiative focuses on the following areas: 1) comparative analysis of animal and human stem cells to provide information for selection of the most predictive and informative model systems; 2) development of new technologies for stem cell characterization and transplantation; and 3) improvement of animal disease models for stem cell-based therapeutic applications. This FOA will use the NIH R24 Resource-Related Research Projects award mechanism. Due: 05/25/2015, 09/25/2015.

Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-13-252.html>

LIMITED SUBMISSION: Office of Research Infrastructure Programs/NIH/DHHS: *Specific Pathogen Free Macaque Colonies (U42)*. Office of Research Infrastructure Programs (ORIP) invites applications for continuing support for specific pathogen free (SPF) macaque colonies previously funded under the auspices of PAR-11-116 (SPIN # 19691) and PAR-11-115 (SPIN # 19640). SPF macaques are free of certain viruses that can compromise the results of AIDS-related investigations or that provide a risk to personnel who handle the animals. Applicants must provide plans for: a) maintaining the SPF colonies, minimally at current levels; b) distributing animals to AIDS researchers, with first priority to NIH-funded investigators; c) assaying for the presence of specific viruses; d) typing animals for specific major histocompatibility complex loci; and e) financing colony operations. This FOA will utilize the NIH U42 Animal (Mammalian and Nonmammalian) Model, and Animal and Biological Materials Resource Cooperative Agreements award mechanism. Due: 05/07/2015, 09/07/2015.

Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-14-066.html>

National Science Foundation: *Cyber-Physical Systems (CPS)*. Despite significant inroads into CPS technology in recent years, we do not yet have a mature science to support systems engineering of high-confidence CPS, and the consequences are profound. Traditional analysis tools are unable to cope with the full complexity of CPS or adequately predict system behavior. For example, minor events that trip the current electric power grid—an ad hoc system—can escalate with surprising speed into widespread power failures. This scenario exemplifies the lack of appropriate science and technology to conceptualize and design for the deep interdependencies among engineered systems and the natural world. The challenges and opportunities for CPS are thus significant and far-reaching. New relationships between the cyber and physical components require new architectural models that redefine form and function. They integrate the continuous and discrete, compounded by the uncertainty of open environments. Traditional real-time performance guarantees are insufficient for CPS when systems are large and spatially, temporally, or hierarchically distributed in configurations that may rapidly change. With the greater autonomy and cooperation possible with CPS, greater assurances of safety, security, scalability, and reliability are demanded, placing a high premium on open interfaces, modularity, interoperability, and verification. The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems which people can use or interact with and depend upon. Some of these may require high-confidence or provable behaviors. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. To expedite and accelerate the realization of cyber-physical systems in a wide range of applications, the CPS program also supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds. We have also seen a convergence of CPS technologies and research thrusts that underpin "Smart Cities" and the Internet of Things (IoT). These domains offer new and exciting challenges for foundational research and provide opportunities for maturation at multiple time horizons. Due: 05/04/2015.

Link: <http://www.nsf.gov/pubs/2015/nsf15541/nsf15541.htm>



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Transportation Research Board: NCHRP Request for Proposal - Assessing Interactions between Access Management Treatments and Multimodal Users. The Transportation Research Board's National Cooperative Highway Research Program (NCHRP) has issued a request for proposals (RFP) to identify and determine unknown relationship definitions between access management techniques and the various users/modes along multimodal corridors. The deliverable will be a final report that documents the conduct of the research and includes quantitative information that can be incorporated into publications such as the AASHTO Green Book and the Highway Capacity Manual, as well as used in the development of simulation software. The end product should be useable by practitioners both for technical analysis and to support their efforts to explain technical findings to non-transportation professionals and public stakeholders. Due: 03/25/2015. Link: <http://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=3858>

Department of Energy: Network Optimized Distributed Energy Systems (NODES). This program will fund the development of innovative and disruptive technologies for real-time management of transmission and distribution networks by system-wide control and coordination of flexible load and Distributed Energy Resources (DERs) to improve the overall efficiency and reliability of the U.S. electric grid and enable renewables penetration at the 50% level or greater. Due: 03/20/2015. Link: <https://arpa-e-foa.energy.gov/#Foaldc039dfd3-ae21-47e7-801c-fd13b2bf18ad>

Department of the Air Force: Certification of Composites – Composite Airframe Life Extension. The Composite Airframe Life Extension (CALE) program will concentrate on identifying, developing, demonstrating and validating technology that will allow USAF airframe structural integrity managers to safely extend the certified service lives of airframes currently in the USAF fleet that contain advanced composite primary structure, without widespread replacement of aged structure with new, and without repeating an extensive, complex building block demonstration process. The CALE program will identify and develop technology to know and/or predict the residual strength, durability and damage tolerance, and reliability of advanced composite structure throughout the original, and if required new service life of the airframe. Due: Pre-solicitation. Link: <https://www.fbo.gov/index?s=opportunity&mode=form&id=231f5136ef106f49295391bb3ad53b59&tab=core&cvview=0>

National Institutes of Health (NIH), National Institute on Drug Abuse (NIDA), National Institute on Alcohol Abuse and Alcoholism (NIAAA): Gene-Environment Interplay in Substance Use Disorders. This Funding Opportunity Announcement (FOA) seeks to stimulate and expand research on the interplay of genetic and environmental factors in the genesis, course, and outcomes of substance and alcohol use disorders (SUDs). Previous work in genetic epidemiology and molecular genetics has established that SUDs are highly heritable, developmental disorders with important genetic substrates. Building on these findings, new studies using genetically informative approaches are needed to elucidate the complex interplay of genetic and environmental factors in developmental trajectories of SUDs and comorbid conditions, deepen and refine phenotypic definitions of SUDs, and meet the methodologic challenges of the field. Such studies hold great potential to promote understanding of the true contributions of both genetic and environmental factors to initiation, progression, comorbidity, adverse outcomes, and cessation of SUDs; to elucidate mechanisms of risk; and to enhance opportunities for translation to treatment, prevention, gene-finding and molecular studies. Due: Various.
 R01 Research Project Grant, Link: <http://grants.nih.gov/grants/guide/pa-files/PA-15-110.html>
 R03 Small Grant Program, Link: <http://grants.nih.gov/grants/guide/pa-files/PA-15-111.html>
 R21 Exploratory/Developmental Grant, Link: <http://grants.nih.gov/grants/guide/pa-files/PA-15-112.html>

National Aeronautics & Space Administration (NASA): ROSES 2014: Extreme Precision Doppler Spectrometer Instrument. NASA and NSF have embarked on the NN-EXPLORE partnership in response to the recommendation of the Astro2010 Decadal Survey that "NASA and NSF should support an aggressive program of ground-based high-precision radial velocity surveys of nearby stars in order to validate and characterize exoplanet candidates." Accordingly, the cornerstone of the NN-EXPLORE partnership will be a new NASA-funded Extreme Precision Doppler Spectrometer (EPDS) that will be installed as a



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facility instrument on the WIYN telescope. This call is issued to solicit proposals to provide such an instrument. Due: 03/20/2015, 04/24/2015. Link:

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={3CB1D7E0-A0A6-8FB6-4141-27EC3FC6CFCA}&path=open>

McKnight Endowment Fund for Neuroscience: *McKnight Neuroscience of Memory and Cognitive Disorders Awards*. The McKnight Endowment Fund for Neuroscience supports innovative research designed to bring science closer to the day when diseases of the brain can be accurately diagnosed, prevented, and treated. To this end, the McKnight Memory and Cognitive Disorders Award assists scientists working to apply the knowledge achieved through basic research to human brain disorders that affect memory or cognition. Due: 04/01/2015.

Link: <https://neuroscience.mcknight.org/newsroom/upcoming-deadlines/2016mcd>

National Institute on Drug Abuse/NIH/DHHS: *Development and Maintenance of a Multigenotypic Aged Mouse Colony*.

The Contractor shall develop, maintain and distribute a standing colony of aged mice of NIA-specified genotypes for use by investigators in studies of aging. The expected duration of this colony, and therefore of this contract, is ten years. During years 1 through 2, animals shall be entered into the colony, but few animals shall be removed from the colony except for the purposes of monitoring health and genetic purity. However, if the need should arise, animals may be distributed from the colony at any time at the direction of the Contractor Officer's Representative (COR). During years 3 through 7, animals shall continue to be entered into the colony and animals shall be distributed to investigators. This should be a period of stable operation with young animals entering the colony at approximately the same rate as older animals leave the colony due to distribution and normal attrition. The final period, years 8-10, will serve as the colony close-out period. Animals shall be maintained and disbursed, but entry of animals shall cease at the beginning of year 8 or when entries begin in a renewal contract colony. Thus the population in this contract colony will decline to a point of zero or very few animals at the end of year ten. Due: 04/10/2015.

Link: https://www.fbo.gov/?s=opportunity&mode=form&id=cdad0f28224893ff5946471654814716&tab=core&_cview=0

Environmental Protection Agency: *Water Security Mission Support*. With the Nation under continuing threat from those who seek to harm it, EPA has the important responsibility of protecting the environment from terrorist acts. The contractor shall provide technical, regulatory, analytical, research and developmental, logistical, and informational technology support to the EPA in its efforts supporting the all-hazards approach to water security responsibilities. The successful contractor shall provide all necessary labor, materials, and services in support of the efforts. EPA anticipates the contract will be a cost-plus-fixed-fee, level-of-effort, work assignment type contract for a period of 12 months including four 12 month option periods. The base period will include 80,000 hours and increased quantity options will be at 70,000 hours per period. The successful contractor is responsible for having in place the appropriate facility clearance indicated on the Department of Defense, Contract Security Classification Specification (DD 254) form. The clearance is required at time of proposal submission. Due: Pre-solicitation. Link:

https://www.fbo.gov/index?s=opportunity&mode=form&id=f22d509f9c4f1b561d29df04a238116a&tab=core&_cview=0

National Oceanic & Atmospheric Administration/Department of Commerce: *Implementation of the U.S. Integrated Ocean Observing System (IOOS)*. The U.S. Integrated Ocean Observing System (IOOS) is a national and regional partnership working to provide observations, data, and new tools and forecasts to improve safety, enhance the economy, and protect our environment. NOAA is requesting proposals for coordinated regional efforts that further the IOOS in two topic areas, 1) sustaining and enhancing comprehensive regional observing systems and 2) verification and validation of observing technologies for studying and monitoring coastal and ocean environments. Due: 08/31/2015.

Link: <http://www.grants.gov/web/grants/view-opportunity.html?opId=273312>



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Environmental Protection Agency: *Great Lakes Restoration Initiative Request for Applications*. This Request for Applications (RFA) solicits applications from eligible entities for a cooperative agreement to be awarded pursuant to the Great Lakes Restoration Initiative Action Plan II. Applications are requested for a project to complete chemical analysis in support of the Great Lakes Fish Monitoring and Surveillance Program. This RFA is the first Great Lakes Restoration Initiative for FY2015. Due: 04/17/2015. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=273235>

National Institute of Allergy and Infectious Diseases/NIH/DHHS: *Molecular Mechanisms of Combination Adjuvants (MMCA) (U01)*. National Institute of Allergy and Infectious Diseases (NIAID) invites applications that propose studies of the mechanism of action of a combination of two or more vaccine adjuvants (combination adjuvant). Adjuvants that are used in these studies must already have shown immune boosting activity when used individually in licensed or unlicensed vaccines (e.g. experimental or candidate vaccines). The purpose of this FOA is to build upon the investment the NIAID has already made into adjuvant research, by combining previously identified and characterized adjuvants and characterizing their immune stimulating activity. The Cooperative Agreement grant mechanism allows for coordination of these research efforts with NIAID's overall adjuvant research objectives. The long-term goal is to promote the development of novel adjuvant combinations which will improve the immunogenicity of vaccines while addressing concerns related to reactogenicity. This program will use the NIH U01 Research Project Cooperative Agreements award mechanism. Due: 06/09/2015, 07/09/2015. Link: <http://grants1.nih.gov/grants/guide/rfa-files/RFA-AI-15-005.html>

National Aeronautics & Space Administration: *Robotics Outreach Competition II*. NASA Ames Research Center (ARC) Robotics Alliance Project (RAP) intends to issue a Cooperative Agreement Notice (CAN) soliciting proposals to design and administer two distinct robotics competition programs, referred to collectively as the NASA Ames Robotics Outreach Competition (ROC-II). Eligible organizations may submit proposals that provide evidence of the capability and proven experience necessary to provide both the technical and administrative framework required to implement a national, high caliber outreach program, including a high-quality national level robotics competition experience that leverages hands-on experiences in a technical environment. The ROC II addresses the critical shortage in Science, Technology, Engineering and Mathematics (STEM) fields that the Nation is facing by providing hands-on robotics competition events while working with engineers and talented faculty from universities and high schools in the U.S. It is the strategic intent of this program that students will be inspired and motivated to pursue degrees that meet NASA's robotics competency requirements. Due: 04/22/2015. Link: https://www.fbo.gov/index?s=opportunity&mode=form&id=034e0ca28a108907cc024919b73f9ae7&tab=core&_cvview=0

National Science Foundation: *Critical Techniques and Technologies for Advancing Foundations and Applications of Big Data Science & Engineering (BIGDATA)*. The BIGDATA program seeks novel approaches in computer science, statistics, computational science, and mathematics, along with innovative applications in domain science, including social and behavioral sciences, geosciences, education, biology, the physical sciences, and engineering that lead towards the further development of the interdisciplinary field of data science. The solicitation invites two types of proposals: "Foundations" (F): those developing or studying fundamental theories, techniques, methodologies, technologies of broad applicability to Big Data problems; and "Innovative Applications" (IA): those developing techniques, methodologies and technologies of key importance to a Big Data problem directly impacting at least one specific application. Therefore, projects in this category must be collaborative, involving researchers from domain disciplines and one or more methodological disciplines, e.g., computer science, statistics, mathematics, simulation and modeling, etc. While Innovative Applications (IA) proposals may address critical big data challenges within a specific domain, a high level of innovation is expected in all proposals and proposals should, in general, strive to provide solutions with potential for a broader impact on data science and its applications. IA proposals may focus on novel theoretical analysis and/or on experimental evaluation of techniques and methodologies within a specific domain. Proposals in all areas of sciences and engineering covered by participating directorates at NSF are welcome. While notions of volume, velocity, and variety are commonly ascribed to big data



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problems, other key issues include data quality and provenance. Data-driven solutions must carefully ascribe quality and provenance to results in a manner that is helpful to the users of the results. For example, in some cases, such as in education research, data quality may aggregate to test or measurement instrument quality, where a composite of variables may be used to describe one or more constructs. In addition to approaches such as search, query processing, and analysis, visualization techniques will also become critical across many stages of big data use—to obtain an initial assessment of data as well as through subsequent stages of scientific discovery. Research on visualization techniques and models will be necessary for serving not only the experts, who are collecting the data, but also those who are users of the data, including “cross-over” scientists who may be working with big data and analytics for the first time, and those using the data for teaching at the undergraduate and graduate levels. The BIGDATA program seeks novel approaches related to all of these areas of study. Due: 05/20/2015. Link: <http://www.nsf.gov/pubs/2015/nsf15544/nsf15544.htm>

National Institute on Deafness & Other Communication Disorders/NIH/DHHS: NIDCD Phase I/II/III Clinical Trials in Communication Disorders (U01). National Institute on Deafness and Other Communication Disorders (NIDCD) invites applications for a cooperative agreement between NIDCD Project Scientist and investigator to support phase I and II clinical trials of preliminary efficacy and phase III clinical trials of definitive efficacy. Phase III clinical trial applications must include a complete detailed Manual of Procedures (MOP) in the appendix (see <http://www.nidcd.nih.gov/research/clinicaltrials> for an example of a complete, detailed MOP). The NIDCD Planning Grant for Phase III Clinical Trials in Communication Disorders (U34) (PAR-15-117, SPIN # 45732) may be used to gather information and prepare the MOP. This program will use the NIH U01 Research Project Cooperative Agreements award mechanism. Due: 05/09/2015, 06/09/2015, 09/09/2015, 10/09/2015. Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-15-116.html>

Office of Research Infrastructure Programs/NIH/DHHS: High-End Instrumentation (HEI) Grant Program (S10). Office of Research Infrastructure Programs (ORIP) invites applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems that cost at least \$600,000. The maximum award is \$2,000,000. Types of instruments supported include, but are not limited to, X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA sequencers, biosensors, electron and confocal microscopes, cell-sorters, and biomedical Imagers. This FOW will use the NIH S10 Biomedical Research Support Shared Instrumentation Grants award mechanism. Due: 05/29/2015. Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-15-118.html>

National Science Foundation: Partnerships for Innovation: Accelerating Innovation Research- Technology Translation (PFI: AIR-TT). The NSF Partnerships for Innovation (PFI) program within the Division of Industrial Innovation and Partnerships (IIP) is an umbrella for two complementary subprograms, Accelerating Innovation Research (AIR) and Building Innovation Capacity (BIC). Overall, the PFI program offers opportunities to connect new knowledge to societal benefit through translational research efforts and/or partnerships that encourage, enhance and accelerate innovation and entrepreneurship. The subject of this solicitation is PFI: AIR-Technology Translation (PFI: AIR-TT). The PFI: AIR-TT solicitation serves as an early opportunity to move previously NSF-funded research results with promising commercial potential along the path toward commercialization. Projects are supported to demonstrate proof-of-concept, prototype, or scale-up while engaging faculty and students in entrepreneurial/innovative thinking. **WEBINAR:** A webinar will be held within 6 weeks of the release date of this solicitation to answer any questions about this solicitation. Details will be posted on the IIP website (<http://www.nsf.gov/eng/iip/pfi/air-tt.jsp>) as they become available. LOI Due: 03/13/2015. Proposal Due: 04/14/2015. Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504790

National Science Foundation: Archiving and Discovering of Data and Metadata Generated through Projects Funded by the NSF Arctic Sciences Section. The National Science Foundation (NSF) invites investigators at U.S. organizations to submit proposals for a cooperative agreement for archival of data and access to data and metadata generated through projects



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funded by the NSF Arctic Sciences Section. Proposals should focus on providing data and metadata ingest services for NSF-funded data providers, data and metadata access services to scientists across disciplines and other Arctic stakeholders (including decision-makers), and data and metadata archival services to ensure that the data is accessible and discoverable in the future. LOI Due: 04/17/2015. Proposal Due: 05/18/2015.

Link: <http://www.nsf.gov/pubs/2015/nsf15543/nsf15543.htm>

National Science Foundation: *Genealogy of Life (GoLife)*. Comprehensive understanding of life and how and why it changes over time depends on knowledge of the phylogeny (evolutionary relationships) of living and extinct organisms. The goals of the Genealogy of Life (GoLife) program are to resolve the phylogenetic history of all life's diverse forms and to integrate this genealogical architecture with underlying organismal and environmental data. The ultimate vision of this program is an open access, comprehensive Genealogy of Life that will provide the comparative framework necessary for testing questions in systematics, evolutionary biology, ecology, and other fields. Strategic integration of this genealogy of life with data layers from genomic, phenotypic, spatial, ecological and temporal data will produce an extensive synthesis of biodiversity and evolutionary sciences. The resulting knowledge infrastructure will enable synthetic research on biological dynamics throughout the history of life on Earth, within current ecosystems, and for predictive modeling of the future evolution of life. Projects submitted to this program should emphasize increased efficiency in contributing to a complete Genealogy of Life and strategic integration of various types of organismal and environmental data with phylogenies. This program also seeks to broadly train next generation, integrative phylogenetic biologists, creating the human resource infrastructure and workforce needed to tackle emerging research questions in comparative biology. Projects should train students for diverse careers by exposing them to the multidisciplinary areas of research within the proposal. Due: 03/25/2015. Link:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5129

National Science Foundation: *Campus Cyberinfrastructure - Data, Networking, and Innovation Program (CC*DNI)*. The Campus Cyberinfrastructure - Data, Networking, and Innovation (CC*DNI) program invests in campus-level data and networking infrastructure and integration activities tied to achieving higher levels of performance, reliability and predictability for science applications and distributed research projects. Science-driven requirements are the primary motivation for any proposed activity. Due: 03/24/2015. Link: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504748

