

Funding Notice

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Arts & Humanities

National Trust for Historic Preservation: *Cynthia Woods Mitchell Fund for Historic Interiors*. The Cynthia Woods Mitchell Fund for Historic Interiors provides grants for planning activities and education efforts focused on the preservation of historic interiors. Due: 05/01/2015. Link: <http://www.preservationnation.org/resources/find-funding/special-funds/cynthia-woods-mitchell.html>

National Trust for Historic Preservation: *Johanna Favrot Fund for Historic Preservation*. The National Trust for Historic Preservation's Johanna Favrot Fund for Historic Preservation provides support for planning activities and education efforts focused on preservation. Due: 05/01/2015. Link: <http://www.preservationnation.org/resources/find-funding/special-funds/johanna-favrot-fund.html>

American Speech-Language-Hearing Foundation: *New Investigators Research Grant*. New scientists earning their latest degree in communication sciences within the last 5 years are eligible to compete for grants to pursue research in audiology or speech-language pathology. Due: 04/24/2015. Link: http://www.ashfoundation.org/grants/research_grants/

American Speech-Language-Hearing Foundation: *New Century Scholars Research Grant*. The American Speech-Language-Hearing Foundation (ASHFoundation) invites investigators to submit proposals in competition for up to four research grants. This grant initiative is designed to advance the knowledge base in communication sciences and disorders. Due: 04/24/2015. Link: <http://www.ashfoundation.org/grants/New-Century-Scholars-Research-Grant/>

Weill (Kurt) Foundation for Music: *College/University Performance Grants*. Grants are awarded to colleges and universities in support of general production expenses for performances of Kurt Weill's and/or Marc Blitzstein's stage works, and to cover musical expenses in connection with performances of Weill's or Blitzstein's concert works. Due: 06/01/2015. Link: <http://www.kwf.org/guidelines-and-application>

Oral History Association: *Oral History in a Nonprint Format Award*. The sponsor presents an annual award to recognize a film, video, performance pieces, radio program or series, exhibition, or drama that makes significant and outstanding use of oral history to interpret an historical event, person, place, or way of life. Due: 04/17/2015. Link: <http://www.oralhistory.org/annual-awards/#nonprint>

Education, Health, Social Science, & Service

Administration on Children, Youth and Families/ACF/DHHS: *Building the Evidence for Family Group Decision-Making in Child Welfare*. The purpose of this funding opportunity announcement (FOA) is to solicit proposals for 36-month projects that will: conduct a family group decision-making (FGDM) program that effectively supports family connections and engages family members in ways that achieve positive outcomes for the target population of children who are in, or at risk of entering, foster care and their families; and analyze the implementation, impact, and cost of the FGDM program through a rigorous local evaluation and cross-site evaluation participation and produce high-level evidence of what worked and why in order to contribute to the evidence base for FGDM practice. Due: 04/24/2015. Link: <http://www.acf.hhs.gov/grants/open/foa/view/HHS-2015-ACF-ACYF-CF-1008>

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National Institute of Mental Health/NIH/DHHS: *Improving Delivery of HIV Prevention and Treatment through Implementation Science and Translational Research (R21)*. National Institute of Mental Health (NIMH) and National Institute of Allergy and Infectious Diseases (NIAID) invite applications for research designed to increase the public health impact of efficacious HIV/AIDS-related interventions for prevention and treatment. To maximize the public health impact of available interventions, significant progress is needed to advance science designed to get interventions to the men, women, and children who need them. The goals of this scientific agenda are to learn how best to deliver interventions more efficiently and effectively in real-world communities and clinics, to more readily transfer interventions from one setting or population to another, and to make better informed choices for combination intervention packages. This FOA will use the NIH Exploratory/Developmental (R21) grant mechanism. Due: 05/07/2015, 09/07/2015, Various.

Link: <http://grants1.nih.gov/grants/guide/pa-files/PA-14-129.html>

National Institutes of Health/DHHS: *Advancing Structural Level Interventions through Enhanced Understanding of Social Determinants in HIV Prevention and Care (R21)*. National Institute of Mental Health (NIMH) and National Institute of Allergy and Infectious Diseases (NIAID) invite applications that propose to understand and address social determinants associated with the prevention and treatment of HIV. This FOA describes two research endeavors that are unique and overlapping. The first is to characterize those social determinants that are most relevant to HIV prevention and treatment outcomes, particularly in their association with inequities in HIV risk or disease outcomes. The second is to develop and test structural interventions aimed at reducing the negative impact or maximizing positive aspects of social determinants. This FOA will use the NIH Exploratory/Developmental (R21) grant mechanism. Due: 05/07/2015, 09/07/2015, Various.

Link: <http://grants1.nih.gov/grants/guide/pa-files/PA-14-134.html>

National Institute of Child Health and Human Development/NIH/DHHS: *Research on Children in Military Families: The Impact of Parental Military Deployment and Reintegration on Child and Family Functioning (R13)*. The sponsors invite applications for support of interdisciplinary conferences and meetings to examine critical questions regarding the impact of parental military deployment, combat-related stress and reintegration with the family on child social and affective development outcomes as well as on family functioning. This FOA will utilize the NIH R13 Support for Conferences and Scientific Meetings award mechanism. Due: 05/07/2015; 08/12/2015; 09/07/2015.

Link: <http://grants1.nih.gov/grants/guide/pa-files/PA-12-223.html>

National Institute of Child Health and Human Development/NIH/DHHS: *NICHD Research Short Courses (R25)*. National Institute of Child Health and Human Development (NICHD) invites applications for grants to develop and conduct short-term research education programs to improve the knowledge and skills of a broad-based community of biomedical and behavioral researchers conducting research on reproductive, developmental, behavioral, social, and rehabilitative processes that determine the health and well-being of newborns, infants, children, adults, families, and populations. The program should include both didactic and hands-on experiences. If appropriate, the program may include activities to disseminate course materials and instructional experience to the scientific community. Programs focusing on uses of model organisms are encouraged. This FOA will utilize the NIH R25 Education Projects award mechanism. Due: 05/07/2015; 05/25/2015; 09/07/2015. Link: <http://grants1.nih.gov/grants/guide/pa-files/PA-12-207.html>

Department of Education: *Evaluation of State Education Programs and Policies Grant Program*. The purpose of the Evaluation of State Education Programs and Policies Grant Program is to support rigorous evaluations of education programs and policies implemented by State educational agencies (SEAs) that have important implications for improving student education outcomes. These evaluations are to be carried out by partnerships between research institutions and SEAs. Due: 06/10/2015. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppId=275118>



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National Science Foundation: *EHR Core Research (ECR)*. The EHR Core Research (ECR) program of fundamental research in STEM education provides funding in critical research areas that are essential, broad and enduring. EHR seeks proposals that will help synthesize, build and/or expand research foundations in the following focal areas: STEM learning, STEM learning environments, STEM workforce development, and broadening participation in STEM. The ECR program is distinguished by its emphasis on the accumulation of robust evidence to inform efforts to (a) understand, (b) build theory to explain, and (c) suggest interventions (and innovations) to address persistent challenges in STEM interest, education, learning, and participation. The program supports advances in fundamental research on STEM learning and education by fostering efforts to develop foundational knowledge in STEM learning and learning contexts, both formal and informal, from childhood through adulthood, for all groups, and from the earliest developmental stages of life through participation in the workforce, resulting in increased public understanding of science and engineering. The ECR program will fund fundamental research on: human learning in STEM; learning in STEM learning environments, STEM workforce development, and research on broadening participation in STEM. Due: 09/10/2015. Link: <http://www.nsf.gov/pubs/2015/nsf15509/nsf15509.htm>

National Center on Birth Defects and Developmental Disabilities/CDC/DHHS: *National Public Health Practice and Resource Centers for Children with Attention Deficit/Hyperactivity Disorder or Tourette Syndrome*. National Center on Birth Defects and Developmental Disabilities (NCBDDD) invites applications for the National Public Health Practice and Resource Centers (NPHPRC) on Health for Children with Attention-Deficit/Hyperactivity Disorder (ADHD) or Tourette syndrome (TS). The purpose is to fund centers that have the capacity to develop and provide health promotion programs and health communication and education resources for both professionals and the public regarding ADHD or TS. Program strategies should include 1) Information, Consultation and Referral, 2) Health Communication Programs and Materials Development, and 3) Education and Training. A total of approximately \$6.8 million is available. Due: 05/11/2015. Link: <http://www.grants.gov/view-opportunity.html?oppld=274992>

National Center for Chronic Disease Prevention & Health Promo./CDC/DHHS: *Working with Publicly Funded Health Centers to Reduce Teen Pregnancy among Youth from Vulnerable Populations*. National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP) invites applications for a new five-year initiative to 1) enhance publicly funded health centers capacity to provide youth-friendly sexual and reproductive health services and 2) increase the number of youth accessing sexual and reproductive health services by (a) working with youth-serving systems to develop strategies to refer and link vulnerable youth to care and (b) increasing awareness of the health centers services in the local community through communication efforts. All proposed strategies and approaches should contribute to the long-term outcomes of reduction in teen pregnancy and births. Sexual and reproductive health services includes services such as sexual health assessment, contraceptive and/or sexual health counseling, health exams (e.g. pelvic exam, pap test), insertion of or prescription of contraception or IUD, STD screening and/or treatment and HIV testing. A total of approximately \$9.75 million is available. Due: 05/15/2015. Link: <http://www.grants.gov/view-opportunity.html?oppld=274991>

Bureau of Justice Assistance/Department of Justice: *The Sexual Assault Kit Initiative: National Training and Technical Assistance*. The sponsor is pleased to announce that it is seeking applications for funding to support national training and technical assistance for jurisdictions engaged in comprehensive sexual assault response reform related to the issue of unsubmitted sexual assault kits. Due: 05/07/2015. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=275013>

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Science, Technology, Engineering, & Mathematics

National Energy Technology Laboratory/Department of Energy: *Emerging Technologies for Methane Production via Biological In-Situ Coal Conversion and Low Cost Oxygen Production for Gasification*. Through this program, the sponsor is soliciting proposals for support of the Gasification Systems technology area. There will be a total of two Areas of Interest. The AES Program is pursuing research and development to (1) accelerate in-situ bio-gasification of coal seams with a goal of creating methane at a lower cost than typical U.S. natural gas recovery systems; and (2) produce oxygen for use in coal gasification processes at a significantly lower cost than that of the commercial state of the art technology.

Due: 04/13/2015. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=273848>

National Institute of Standards & Technology/Technology Administration/DOC: *NIST Standards Services Curricula Development (SSCD) Cooperative Agreement Program*. The NIST SSCD Cooperative Agreement Program provides financial assistance to support curriculum development for the undergraduate and/or graduate level. These cooperative agreements support the integration of standards and standardization information and content into seminars, courses, and learning resources. The recipients will work with NIST to strengthen education and learning about standards and standardization.

Due: 04/13/2015. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=273988>

National Oceanic & Atmospheric Administration/Department of Commerce: *National Ocean Sciences Competition for High School Students*. NOAA provides support to improve ocean literacy among our Nation's citizens and to promote a diverse future workforce in ocean, coastal, Great Lakes, weather, and climate sciences, with the goal of increasing stewardship and informed decision making by and for the Nation. This funding opportunity supports Science, Technology, Engineering and Mathematics (STEM) education through a focus on ocean sciences and related fields.

Due: 04/21/15. Link: <http://www.grants.gov/web/grants/view-opportunity.html?oppld=274680>

National Human Genome Research Institute/NIH/DHHS: *Genomic Resource Grants for Community Resource Projects (U41)*. National Human Genome Research Institute (NHGRI) invites applications for the development and distribution of genomic resources that will be available to and valuable for the broad research community, using cost-effective approaches. Such resources include (but are not limited to) informatics resources (such as human and model organism databases, ontologies, and coordinated sets of analysis tools), comprehensive identification and collections of genomic features (such as structural variants or functional genomic elements), and standard data types produced for central sets of samples (such as 1000 Genomes or GTEx samples). This FOA will utilize the NIH U41 Biotechnology Resource Cooperative Agreements. Due: 05/25/2015; 09/25/2015; Various. Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-14-191.html>

National Science Foundation: *Critical Techniques and Technologies for Advancing Big Data Science & Engineering (BIGDATA)*. The BIGDATA program seeks novel approaches in computer science, statistics, computational science, and mathematics, long 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



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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. Due: 05/20/2015. Link: <http://www.nsf.gov/pubs/2015/nsf15544/nsf15544.htm>

National Institute of Food and Agriculture/Department of Agriculture: *Agriculture and Food Research Initiative: Agriculture and Natural Resources Science for Climate Variability and Change Challenge Area -- Climate Resilient Land Use for Agriculture and Forestry.* AFRI is a competitive grant program to provide funding for fundamental and applied research, education, and extension projects in food and agricultural sciences. In this RFA, NIFA requests applications for AFRI Agriculture and Natural Resources Science for Climate Variability and Change (AFRI ANRCVC) Challenge Area Program for FY 2015. The goal of this program is to support research to facilitate the adaptation of agroecosystems and natural resource systems to climate variability and the implementation of mitigation strategies in those systems. In FY 2015, applications are sought in the following priority areas: 1) Climate and Microbial Processes in Agroecosystems; 2) Climate Resilient Land Use for Agriculture and Forestry; or 3) Synthesis and Assessment of USDA NIFA's Climate Investments. The amount available for support of this program in FY 2015 is approximately \$5.0 million. LOI Due: 04/02/2015. Proposal Due: 06/04/2015. Link: <http://www.grants.gov/view-opportunity.html?oppld=274626>

National Institute of Food and Agriculture/Department of Agriculture: *Biotechnology Risk Assessment Grants Program.* NIFA requests applications for the Biotechnology Risk Assessment Grants (BRAG) Program for fiscal year (FY) 2015 to support environmental assessment research concerning the introduction of genetically engineered (GE) organisms into the environment. The amount available for support of this program in FY 2015 is approximately \$3.6 million. Due: 04/17/2015. Link: <http://www.grants.gov/view-opportunity.html?oppld=274693>

National Institute of Allergy and Infectious Diseases/NIH/DHHS: *NIAID Clinical Trial Planning Grant (R34).* National Institute of Allergy and Infectious Diseases (NIAID) invites applications that propose the complete planning, design, and preparation of the documentation necessary for implementation of investigator-initiated clinical trials. The trials must be hypothesis-driven, milestone-defined, related to the research mission of the NIAID and considered high priority by the Institute. Investigators are encouraged to visit the NIAID website for additional information about the research mission and high-priority research areas of the NIAID (<http://www3.niaid.nih.gov/about/whoWeAre/planningPriorities/>). This FOA will utilize the NIH clinical trial planning (R34) grant mechanism. Due: 04/13/2015; 05/13/2015; 08/11/2015; 09/11/2015; 12/13/2015. Link: <http://grants1.nih.gov/grants/guide/pa-files/PAR-13-150.html>

National Cancer Institute/NIH/DHHS: *Big Data to Knowledge (BD2K) Advancing Biomedical Science Using Crowdsourcing and Interactive Digital Media (UH2).* National Institutes of Health (NIH) and its participating Institutes and Centers invite applications for development of new or significantly adapted interactive digital media that engages the public, experts or non-experts, in performing some aspect of biomedical research via crowdsourcing. To be responsive to this FOA, each application is expected to pose a challenging biomedical research problem and propose the development of engaging interactive digital media that incorporates crowdsourcing as a fundamental component of how the problem is solved. The biomedical research problem should be amenable to one or more human computation approaches, as the users must be active participants in the analysis and/or interpretation of data, rather than acting primarily as data collectors or sources of data. This FOA will use the NIH UH2 Exploratory/Developmental Cooperative Agreement Phase I award mechanism. Due: 05/03/2015, 06/03/2015 Link: <http://grants1.nih.gov/grants/guide/rfa-files/RFA-CA-15-006.html>

National Science Foundation: *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: Innovation: inventing and



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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; 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 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. Due: 05/11/2015; 07/31/2015; 12/07/2015; 12/18/2015; 01/18/2016.

Link: <http://www.nsf.gov/pubs/2014/nsf14526/nsf14526.htm>

National Aeronautics & Space Administration: ROSES 2015: Planetary Data Archiving, Restoration, and Tools. The Planetary Data Archiving, Restoration, and Tools (PDART) solicits proposals to generate higher-order data products, archive and restore data sets or products, create or consolidate reference databases, generate new reference information, digitize data, and develop or validate software tools. Due: 05/15/2015.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={19148EC8-0C4D-A31F-7F05-AF399BEF99A8}&path=open>

National Aeronautics & Space Administration: ROSES 2015: Heliophysics Supporting Research. Heliophysics SR awards are focused individual research investigations that employ a variety of techniques, including theory, numerical simulation, modeling, analysis, and interpretation of space data. Due: 05/15/2015; 09/11/2015.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={A5D4C924-CE11-A071-CD9E-690819865ACC}&path=open>

National Aeronautics & Space Administration: ROSES 2015: Heliophysics Infrastructure and Data Environment Enhancements. The goal of the H-IDEE program is to enable breakthrough research in Heliophysics by providing both a state of the art data environment and necessary supporting infrastructure to maximize the scientific return of the NASA missions. Due: 05/22/2015; 07/24/2015.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={A8BBBB13-3DDC-0712-3430-BE602F54157F}&path=open>

National Aeronautics & Space Administration: ROSES 2015: Heliophysics Technology and Instrument Development for Science. The H-TIDeS program combines technology elements previously separated within the old Solar, Heliosphere, and Geospace (Magnetosphere Ionosphere-Thermosphere-Mesosphere Mag-ITM) Science Supporting Research and Technology programs. H-TIDeS seeks to investigate key Heliophysics science questions through three separate sub elements. These sub elements are also established for the purpose of organizing the evaluation and peer review process. Low-Cost Access to Space (LCAS): science and/or technology investigations that can be carried out with instruments flown on suborbital sounding rockets, stratospheric balloons, CubeSats, suborbital reusable launch vehicles, or other platforms, collectively referred to as Low-Cost Access to Space (see Section 1.2 below) Instrument and Technology Development (ITD): state-of-the-art instrument technology development for instruments that may be proposed as candidate experiments for future space flight opportunities, called Instrument and Technology Development which may be carried out in the laboratory and/or observatory (see Section 1.3 below) Laboratory Nuclear, Atomic, and Plasma Physics (LNAPP): laboratory research designated as enabling Laboratory Nuclear, Atomic, and Plasma Physics studies (see Section 1.4 below). Advancement in Heliophysics science requires the development and application of new technologies that will yield the next generation of

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innovative instruments. Laboratory research can be a relevant supplement to instrumentation and to the science of Heliophysics. The ability to achieve significant progress toward the scientific and technical challenges in Heliophysics in the coming years is greatly enhanced through the H-TIDeS program. LOI Due: 06/12/2015. Proposal Due: 08/14/2015.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={D4510CC5-3CC4-9560-7E10-ADDFFF1AE407}&path=open>

National Aeronautics & Space Administration: ROSES 2015: Planetary Protection Research. Planetary protection involves preventing biological contamination on both outbound and sample return missions to other planetary bodies. Numerous areas of research in astrobiology/exobiology are improving our understanding of the potential for survival of Earth microbes in extraterrestrial environments, relevant to preventing contamination of other bodies by organisms carried on spacecraft. Research is required to improve NASA's understanding of the potential for both forward and backward contamination, how to minimize it, and to set standards in these areas for spacecraft preparation and operating procedures. Improvements in technologies and methods for evaluating the potential for life in returned samples are also of interest. Step 1 Due: 06/26/2015. Step 2 Due: 09/04/2015.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={81EF35C3-9B8D-EC6A-4B9E-F24A49D28BC6}&path=open>

National Aeronautics & Space Administration: ROSES 2015: Astrophysics Research and Analysis (APRA). The Astrophysics Research and Analysis Program (APRA) program solicits basic research proposals for investigations that are relevant to NASA's programs in astronomy and astrophysics and includes research over the entire range of photons, gravitational waves, and particle astrophysics. Proposals for suborbital investigations are particularly encouraged. APRA investigations may advance technologies anywhere along the full line of readiness levels, from Technology Readiness Level1 (TRL1) through TRL9. The emphasis of this solicitation is on technologies and investigations that advance NASA astrophysics missions and goals. Step 1 Due: 01/22/2016. Step 2 Due: 03/19/2016.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={38BB7DFF-7A2C-D05E-C6E0-FD024B9D337C}&path=open>

National Aeronautics & Space Administration: ROSES 2015: New (Early Career) Investigator Program in Earth Science. The New (Early Career) Investigator Program (NIP) in Earth Science is designed to support outstanding scientific research and career development of scientists and engineers at the early stage of their professional careers. The program aims to encourage innovative research initiatives and cultivate scientific leadership in Earth system science. The Earth Science Division (ESD) places particular emphasis on the investigators' ability to promote and increase the use of space-based remote sensing through the proposed research. The NIP supports all aspects of scientific and technological research aimed to advance NASA's mission in Earth system science (<http://science.nasa.gov/about-us/science-strategy/>). In basic research and analysis, the Focus Areas include: Carbon Cycle and Ecosystems, Climate Variability and Change, Water and Energy Cycle, Atmospheric Composition, Weather, and Earth Surface and Interior. In applied scientific research, the ESD encourages efforts to discover and demonstrate practical uses of NASA Earth science data, knowledge, and technology (see <http://appliedsciences.nasa.gov>). In technological research, the ESD aims to foster the creation and infusion of new technologies into space missions in order to enable new scientific observations of the Earth system or reduce the cost of current observations (see <http://esto.nasa.gov>). The ESD also promotes innovative development in computing and information science and engineering of direct relevance to ESD. Due: 06/30/2015; 08/31/2015.

Link: <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={B8991E29-00AA-48D8-0380-FBE428CF2EAE}&path=open>

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National Institute on Alcohol Abuse and Alcoholism/NIH/DHHS: *Wearable Alcohol Biosensor Challenge*. National Institute on Alcohol Abuse and Alcoholism (NIAAA), a component of the National Institutes of Health (NIH), is searching for a wearable or otherwise discreet device capable of measuring blood alcohol level in real time. The advent of alcohol biosensors that can be worn discreetly and used by individuals in the course of their daily lives will advance the mission of NIAAA in the arenas of research, treatment, and rehabilitation. NIAAA has supported academic and small business grants and contracts to advance the development and use of alcohol biosensors in the past. Current technological developments in electronics, miniaturization, wireless technology, and biophysical techniques of alcohol detection in humans increase the likelihood of successful development of a useful alcohol biosensor in the near future. The NIH believes that this challenge will stimulate investment from public and private sectors in the development of functional alcohol biosensors that will be appealing to individuals, treatment providers, and researchers. Due: 12/01/2015.

Link: <http://www.gpo.gov/fdsys/pkg/FR-2015-03-02/html/2015-04254.htm>

National Science Foundation: *Software Infrastructure for Sustained Innovation - S2I2 (S12-S2I2)*. The Division of Advanced Cyberinfrastructure in the Computer & Information Science & Engineering Directorate (CISE/ACI) is partnering with Directorates and Offices across the NSF to support SI2, a long-term comprehensive program focused on realizing a sustained software infrastructure that is an integral part of CIF21. The goal of this program is to catalyze and nurture the interdisciplinary processes required to support the entire software lifecycle, resulting in sustainable community software elements and reusable components at all levels of the software stack. The program addresses software in all aspects of cyberinfrastructure, from embedded sensor systems and instruments, to desktops and high-end data and computing systems, to major instruments and facilities. The goal of the overall SI2 program is to create a software ecosystem that scales from individual or small groups of software innovators to large hubs of software excellence. It is envisioned that the SI2 program will collectively support vibrant partnerships between academia, government laboratories and industry, including international entities, for the development and stewardship of a sustainable software infrastructure that can enhance productivity and accelerate innovation in science and engineering. Due: 06/03/2015.

Link: <http://www.nsf.gov/pubs/2015/nsf15553/nsf15553.htm>

National Science Foundation: *Dear Colleague Letter: Indicators for Monitoring Progress Toward Successful K-12 STEM Education*. This Dear Colleague Letter is to announce that the National Science Foundation's Directorate for Education and Human Resources is interested in research and development activities around the 14 Indicators as described in 2013 in the National Research Council report, *Monitoring Progress Toward Successful K-12 Education: A Nation Advancing?* The report calls for a national indicator system that could be used by both policymakers and practitioners to improve STEM education. The report lists 14 Indicators that, if measured regularly, could catalyze such improvement. The indicators can be found at: http://www.nap.edu/catalog.php?record_id=13509. While there are measures of some of these 14 indicators, the valid and reliable measurement of all these indicators is insufficiently developed to monitor the progress of K-12 STEM education in the US. The purpose of this DCL is to encourage proposals to be submitted to the Promoting Research Innovations in Methodologies and Evaluation (PRIME) program ([NSF 15-540](#)) to conduct exploratory work in its early stages on untested but potentially transformative research ideas or approaches necessary to move forward to design and develop measures of one or more of these 14 indicators for use in monitoring and improving the STEM education system. Due: 04/30/2015.

Link: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15540

National Science Foundation: *Hydrologic Sciences (HS)*. The Hydrologic Sciences Program focuses on the fluxes of water in the environment that constitute the water cycle as well as the mass and energy transport function of the water cycle. The Program supports the study of processes from rainfall to runoff to infiltration and streamflow; evaporation and transpiration; the flow of water in soils and aquifers; and the transport of suspended, dissolved, and colloidal components. The Hydrologic Sciences Program retains a strong focus on linking fluxes of water and the components carried by water across boundaries between various interacting facets of the terrestrial system and the mechanisms by which these fluxes



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co-organize over a variety of timescales and/or alter fundamentals of water cycle interactions within the terrestrial system. The Program is also interested in how water interacts with the landscape and the ecosystem as well as how the water cycle and its coupled processes are altered by land use and climate. Studies may address physical, chemical, and biological processes that are coupled directly to water transport. Projects submitted to Hydrologic Sciences commonly involve expertise from basic sciences, engineering and mathematics; and proposals may require joint review with related programs. The Hydrologic Sciences Program will also consider synthesis projects. Due: Anytime.

Link: <http://www.nsf.gov/pubs/2015/nsf15558/nsf15558.htm>

National Science Foundation: *Geobiology and Low-Temperature Geochemistry (GG)*. The Geobiology and Low-Temperature Geochemistry Program focuses on geochemical processes in terrestrial Earth's surface environmental systems, as well as the interaction of geochemical and biological processes. The program supports field, laboratory, theoretical, and modeling studies of these processes and related mechanisms at all spatial and temporal scales. Studies may address: 1) inorganic and/or organic geochemical processes occurring at or near the Earth's surface now and in the past, and across the broad spectrum of interfaces ranging in scale from planetary and regional to mineral-surface and supramolecular; 2) the role of life in the transformation and evolution of Earth's geochemical cycles; 3) surficial chemical and biogeochemical systems and cycles, including their modification through environmental change and human activities; 4) low-temperature aqueous geochemical processes; 5) mineralogy and chemistry of earth materials; 6) geomicrobiology and biomineralization processes; and 7) medical mineralogy and geochemistry. The Program encourages research that focuses on geochemical processes as they are coupled with physical and biological processes in the critical zone. The Program also supports work on the development of tools, methods, and models for the advancement of low-temperature geochemistry and geobiology. The Geobiology and Low-Temperature Geochemistry Program is interested in supporting transformational and cutting-edge research. The Program is highly interdisciplinary and interfaces with other programs within the Earth Surface Section and with programs in biology, chemistry and engineering. Due: Anytime.

Link: <http://www.nsf.gov/pubs/2015/nsf15559/nsf15559.htm>

National Science Foundation: *Geomorphology and Land-use Dynamics (GLD)*. The Geomorphology and Land-use Dynamics Program supports innovative research into processes that shape and modify landscapes over a variety of length and time scales. The program encourages research that quantitatively investigates the coupling and feedback among such processes, their rates, and their relative roles, especially in the contexts of variation in climatic, biologic, and tectonic influences and in light of changes due to human impacts. Such research may involve fieldwork, modeling, experimentation, theoretical development, or combinations thereof. Due: Anytime. Link: <http://www.nsf.gov/pubs/2015/nsf15560/nsf15560.htm>

National Science Foundation: *Faculty Early Career Development Program (CAREER)*. CAREER: The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation'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 the mission of their organizations. Such activities should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals from junior faculty members at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply. Due: July 20-23, 2015. Link: <http://www.nsf.gov/pubs/2015/nsf15555/nsf15555.htm>

National Science Foundation: *Secure and Trustworthy Cyberspace (SaTC)*. Cyberspace has transformed the daily lives of people for the better. The rush to adopt cyberspace, however, has exposed its fragility and vulnerabilities: corporations, agencies, national infrastructure and individuals have been victims of cyber-attacks. In December 2011, the National Science and Technology Council (NSTC) with the cooperation of NSF issued a broad, coordinated Federal strategic plan for cybersecurity research and development to "change the game," minimize the misuses of cyber technology, bolster



Funding Notice

April 1, 2015

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education and training in cybersecurity, establish a science of cybersecurity, and transition promising cybersecurity research into practice. This challenge requires a dedicated approach to research, development, and education that leverages the disciplines of mathematics and statistics, the social sciences, and engineering together with the computing, communications and information sciences. The Secure and Trustworthy Cyberspace (SaTC) program welcomes proposals that address Cybersecurity from a Trustworthy Computing Systems (TWC) perspective and/or a Social, Behavioral and Economic Sciences (SBE) perspective, or from the Secure, Trustworthy, Assured and Resilient Semiconductors and Systems (STARSS) perspective (see "Perspectives" below). In addition, we welcome proposals that integrate research addressing all of these perspectives (see below). Proposals may be submitted in one of the following three categories (plus Cybersecurity Education; see below): 1) Small projects: up to \$500,000 in total budget, with durations of up to three years; 2) Medium projects: \$500,001 to \$1,200,000 in total budget, with durations of up to four years; 3) Large projects: \$1,200,001 to \$3,000,000 in total budget, with durations of up to five years. Due: Various.

Link: <http://www.nsf.gov/pubs/2014/nsf14599/nsf14599.htm>