ARTS, HUMANITIES AND INTERNATIONAL

• U.S. Department of State (DOS); Bureau of Educational and Cultural Affairs (ECA): FY 2015 Special Professional Fellows Program for Southeast Asia

Notice seeking applications designed to enhance leadership and professional skills, and build lasting and sustainable partnerships between mid-level emerging leaders from foreign countries and the United States. Applications are due January 14, 2015. Approximately $1.6 million is available to support two awards. Organizations with less than four years’ experience in conducting international exchanges are ineligible to apply under this competition.

Links: Grants.gov

• U.S. Department of State (DOS); U.S. Mission to India: Celebrate the Connections

Notice seeking to propose a cultural performance and workshop series that celebrates and articulates the longstanding connection between India and the U.S. Applications are due December 24, 2014. Non-profit institutions are eligible.

Links: Grants.gov

EDUCATION and ECONOMIC AND COMMUNITY DEVELOPMENT

• U.S. Department of Education: Educational Technology, Media, and Materials for Individuals with Disabilities-Stepping-up Technology Implementation

Notice seeking applications that aim to (a) identify strategies needed to effectively implement evidence-based technology tools that benefit students with disabilities; and (b) develop and disseminate products (e.g., instruction manuals, lesson plans, demonstration videos, ancillary instructional materials) that will help early childhood or K-12 settings to effectively implement these technology tools. Applications are due January 20, 2015. Approximately $1 million is available in funding, with the estimated average size of the award totally $500,000 per year.

Links: Grants.gov

HEALTH and MENTAL HEALTH

• U.S. Department of Health and Human Services (HHS); Food and Drug Administration (FDA): Developing and Using Precision Therapies in the "Omics" Era: Generating and Interpreting Evidence for Rare Subsets; Public Workshop

Notice announcing an open public workshop on the development and usage of diagnostic and therapeutic products that respectively have the potential to identify and treat patients with rare molecular characteristics. The public workshop will help identify key components of such an evidence framework when therapeutic effectiveness is being evaluated in patients with molecular characteristics that are rare or have not been studied in clinical trials. The public workshop will be held on December 12, 2014, from 9 a.m. to 5 p.m. at the FDA White Oak Campus, 10903 New Hampshire Ave., Bldg. 31 Conference Center, the Great Room (Rm. 1503A), in Silver Spring, MD. Individuals who wish to attend the public workshop in person or via a live Webcast must register online by December 1, 2014.

Links: Federal Register notice

• U.S. Department of Health and Human Services (HHS); National Institutes of Health (NIH); Multiple Institutes: Systems Science and Health in the Behavioral and Social Sciences

Notice seeking applications for research projects that are applied and/or basic in nature (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as systems science methodologies. Notice seeks to promote interdisciplinary collaboration among health researchers and experts in computational approaches to further the development of modeling- and simulation-based systems science methodologies and their application to important public health challenges. Letters of intent are requested by 30 days prior to application due date. R21 applications are due February 16, June 16, and October 16, annually. R01 applications are due February 5, June 5, and October 5, annually. Program expires January 8, 2018.

Links: R21: Solicitation, Grants.gov
R01: Solicitation, Grants.gov

• U.S. Department of Health and Human Services (HHS); National Institutes of Health (NIH); National Cancer Institute (NCI); National Institute of Biomedical Imaging and Bioengineering (NIBIB): Cancer Detection, Diagnosis, and Treatment Technologies for Global Health (UH2/UH3)

Notice seeking applications to support the development of cancer-relevant technologies suitable for use in low- and middle-income countries (LMICs). Letters of intent are requested by February 6, 2015. Applications are due March 6, 2015. Approximately $3 million is available to support six UH2 awards.

Links: Solicitation, Grants.gov
• **U.S. Department of Health and Human Services (HHS); National Institutes of Health (NIH); National Institute of Environmental Health Sciences (NIEHS):** Novel Assays for Screening the Effects of Chemical Toxicants on Cell Differentiation (R41)

Notice seeking applications to develop medium- to high-throughput assays to evaluate the effects of toxicants on pluripotent or induced pluripotent cells with respect to cell differentiation and the resulting differentiated cell populations. Letters of intent are requested by January 13, 2015. Applications are due February 13, 2015. Approximately $1 million is available to support three to four R41 awards. Approximately $3 million is available to support 8 to 10 R43/R44 awards. Partnership opportunities may exist for colleges and universities.

Links: [Solicitation, Grants.gov](https://grants.gov)

• **U.S. Department of Health and Human Services (HHS); National Institutes of Health (NIH); National Institute on Aging (NIA); National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK):** Underactive Bladder in Aging

Notice seeking applications that propose basic, clinical, or translational research on underactive bladder (UAB) and its consequences in aging and in older persons. R01 applications are due February 5, June 5, and October 5, annually. R03 and R21 applications are due February 16, June 16, and October 16, annually.

Links: [Solicitation, Grants.gov](https://grants.gov)

• **U.S. Department of Health and Human Services (HHS); National Institutes of Health (NIH); National Institute on Deafness and Other Communication Disorders (NIDCD):** NIDCD Research Career Transition Award for Nurturing Clinician-Investigators (K22)

Notice seeking applications to facilitate and support the early-stage research career development of new and recently appointed clinician faculty members with limited research training and experience who seek to forge an independent research career trajectory at academic institutions and provide them with the knowledge, tools and research experience that will enable them to craft an NIDCD mentored clinician-scientist development (K08/K23) award application that is competitive for funding. Letters of intent are requested 30 days prior to the application due dates. Applications are due February 2, 2015, October 2, 2015, June 2, 2016, February 2, 2017 and October 2, 2017. Program expires October 3, 2017. Approximately $750,000 is available to support five awards.

Links: [Solicitation, Grants.gov](https://grants.gov)

• **U.S. Department of Health and Human Services (HHS); National Institutes of Health (NIH); Office of Research Infrastructure Programs (ORIP); National Institute on Aging (NIA):** Lab to Marketplace: Tools for Biomedical and Behavioral Research (R43/R44)

Notice seeking applications that encourages the translation of technologies for biomedical or behavioral research from academic and other non-small business research sectors to the marketplace. Applications are due April 5, August 5, and December 5, annually.

Links: [Solicitation, Grants.gov](https://grants.gov)

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**SCIENCE, TECHNOLOGY, ENGINEERING, and MATHEMATICS**

• **National Aeronautics and Space Administration (NASA):** ROSES 2014: Astrophysics Explorer U.S. Participating Investigator

Notice seeking applications that address strategic objective by conducting astrophysics investigations designed to address the following science goals: Probe the origin and destiny of our universe, including the nature of black holes, dark energy, dark matter, and gravity; Explore the origin and evolution of the galaxies, stars, and planets that make our universe; and, Discover and study planets around other stars and explore whether they could harbor life. Proposals are due December 18, 2014. Approximately $1 million per year is available.

Links: [Solicitation, Grants.gov](https://grants.gov)

• **National Science Foundation (NSF); Directorate for Engineering (ENG):** Engineering for Natural Hazards

Notice seeking proposals for research to prevent natural hazards from becoming disasters, and to broaden consideration of natural hazards independently to the consideration of the multi-hazard environment within which the constructed civil infrastructure exists, and to support fundamental research for a broader range of natural hazards, including earthquakes, windstorms (tornadoes and hurricanes), tsunamis and landslide. Proposals windows are February 1, to February 17 and September 1, to September 15, annually.

Links: [Solicitation, Grants.gov](https://grants.gov)

• **National Science Foundation (NSF); Directorate for Engineering (ENG):** Civil Infrastructure Systems (CIS)

Notice seeking proposals for fundamental and innovative research necessary for designing, constructing, managing, maintaining, operating and protecting efficient, resilient and sustainable civil infrastructure systems and encourage research that recognizes the role that these systems play in societal functioning and accounts for how human behavior and social organizations contribute to and affect the performance of these systems. Proposal windows are February 1 to February 17 and September 1 to September 15, annually.

Links: [Solicitation, Grants.gov](https://grants.gov)
• National Science Foundation (NSF); Directorate for Engineering (ENG): Mechanics of Materials and Structures

Notice seeking proposals supporting fundamental research in mechanics as related to the behavior of deformable solid materials and respective structures under internal and external actions with emphasis on research that leads to advances in i) theory, experimental, and/or computational methods in mechanics, and/or ii) uses contemporary mechanics methods to address modern challenges in materials and structures. Proposals windows are from February 1 to February 17 and September 1 to September 15, annually.

Links: Solicitation, Grants.gov

• National Science Foundation (NSF); Directorate for Engineering (ENG): Structural and Architectural Engineering

Notice seeking proposals focused on fundamental research for advancing knowledge and innovation in structural and architectural engineering that enables holistic approach to design, construction, operation, maintenance, retrofit, repair and end-of-life disposal of structures. Proposal windows are February 1 to February 17 and September 1 to September 15, annually.

Links: Solicitation, Grants.gov

• National Science Foundation (NSF); Directorate for Mathematical and Physical Sciences (MPS); Division of Materials Research: Materials Innovation Platforms

Notice seeking proposals to embrace the paradigm set forth by the Materials Genome Initiative (MGI) which strives to ‘discover, manufacture, and deploy advanced materials in half the time and at a fraction of the cost. Proposals are due March 2, 2015. Approximately $10 million is available to support one to three awards.

Links: Solicitation, Grants.gov

• National Science Foundation (NSF); Directorate for Social, Behavioral and Economic Sciences (SBE): Resource Implementations for Data Intensive Research in the Social Behavioral and Economic Sciences

Notice seeking proposals to develop user-friendly large-scale next-generation data resources and relevant analytic techniques to advance fundamental research in SBE areas of study. Proposals are due February 23, 2015. Approximately up to $4.5 million is available to support two to four awards.

Links: Solicitation, Grants.gov

• U.S. Department of Energy (DOE); Office of Science; Office of Biological and Environmental Research U. S. Department of Agriculture (USDA); National Institute of Food and Agriculture (NIFA): Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE

Notice seeking applications for genomics-based research that will lead to the improved use of biomass and plant feedstocks for the production of fuels such as ethanol or renewable chemical feedstocks. Pre-Application are required by December 29, 2014. Applications are due February 23, 2015. Approximately up to $4 million is available to support multiple awards.

Links: Grants.gov

• U.S. Department of Homeland Security (DHS): Request for Information (RFI)-Ultraviolet (UV) Laser Sources for Fielded Systems

Notice soliciting information on currently available laser sources in the UV region below 260 nm that can operate reliably in the field. Notice calls for information on laser technologies that can immediately, or with minor modification, be used in the field or integrated into advanced detection systems. Responses of 3-5 pages detailing existing technology are due January 5, 2015. Eligibility is unrestricted.

Links: FBO Notice

STATE and REGIONAL OPPORTUNITIES

• Service Area Competition Additional Area (SAC-AA) Dayton, OH

Links: Grants.gov