February Funding Opportunities Highlights

1. **Sponsor:** American Cancer Society  
   **Title:** Role of Health Care and Insurance in Improving Outcomes in Cancer Prevention  
   **Deadline:** April 1, 2015  
   **URL:** [http://m.cancer.org/research/applyforaresearchgrant/granttypes/rfa-role-healthcare-insurance-cancer](http://m.cancer.org/research/applyforaresearchgrant/granttypes/rfa-role-healthcare-insurance-cancer)

   **Description:** The American Cancer Society has released a Request for Proposals designed to stimulate research that will generate new knowledge of the effects of the United States healthcare system and the role of insurance on both access to and outcomes with respect to cancer screening, early detection, and treatment services. Studies that investigate how factors affecting access and outcomes interact — e.g. insurance status, costs, capacity, personal characteristics, provider characteristics, and/or components of the healthcare delivery system — are encouraged. Studies may be conducted at the state, multi-state, or national levels, and/or otherwise involve large populations. If cross-sectional studies are proposed, analysis of both demographic and outcomes data — e.g., claims data linked with electronic health records, SEER data, state-level data, National Center for Health Statistics, or other existing datasets — is preferred. Potential areas of investigation include but are not limited to how the structure and capacity of the healthcare system affect appropriate and timely access to cancer screening, early detection, treatment, and palliative care services; the provider and system factors that affect treatment patterns and quality of cancer care within the current healthcare systems; and the exploration of life course patterns of the entire spectrum of cancer care (from prevention and screening through diagnosis, treatment, survivorship, and supportive/palliative care) by linking diverse data sources for broad patient populations. Awards will not exceed $200,000 per year (direct costs) for up to four years.

2. **Sponsor:** National Science Foundation (NSF): Directorate for Education & Human Resources (HER); Division of Graduate Education  
   **Title:** Promoting Research and Innovation in Methodologies for Evaluation (NSF-PRIME)
**Deadline:** April 30, 2015  

**Description:** Notice seeking proposals to support research on evaluation with special emphasis on: (1) exploring innovative approaches for determining the impacts and usefulness of STEM education projects and programs; (2) building on and expanding the theoretical foundations for evaluating STEM education and workforce development initiatives, including translating and adapting approaches from other fields; and (3) growing the capacity and infrastructure of the evaluation field.

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3. **Sponsor:** National Science Foundation  
**Title:** Cyber-Physical Systems (CPS)  
**Deadline:** May 4, 2015  

**Description:** 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 crosscutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors.

In 2015, NSF is working closely with multiple agencies of the federal government, including the U.S. Department of Homeland (DHS) Security Science and Technology Directorate (S&T), U.S. Department of Transportation (DOT) Federal Highway Administration (FHWA), U.S. DOT Intelligent Transportation Systems (ITS) Joint Program Office (JPO), National Aeronautics and Space Administration (NASA) Aeronautics Research Mission Directorate (ARMD), and several National Institutes of Health (NIH) institutes and centers [including the National Institute of Biomedical Imaging and Bioengineering (NIBIB), Office of Behavioral and Social Sciences Research (OBSSR), National Cancer Institute (NCI), and National Center for Advancing Translational Sciences (NCATS)], to identify basic research needs in CPS common across multiple application domains, along with opportunities for accelerated transition to practice.

Three classes of research and education projects - differing in scope and goals -- will be considered through this solicitation:
• Breakthrough projects must offer a significant advance in fundamental CPS science, engineering and/or technology that have the potential to change the field. This category focuses on new approaches to bridge computing, communication, and control. Funding for Breakthrough projects may be requested for a total of up to $500,000 for a period of up to 3 years.

• Synergy projects must demonstrate innovation at the intersection of multiple disciplines, to accomplish a clear goal that requires an integrated perspective spanning the disciplines. Funding for Synergy projects may be requested for a total of $500,001 to $1,000,000 for a period of 3 to 4 years.

• Frontier projects must address clearly identified critical CPS challenges that cannot be achieved by a set of smaller projects. Funding may be requested for a total of $1,000,001 to $7,000,000 for a period of 4 to 5 years.

4. **Sponsor:** National Aeronautics and Space Administration (NASA); Science Mission Directorate (SMD)

**Title:** NASA Science Mission Directorate (SMD) Science Education

**Notices of intent (required):** March 4, 2015

**Full Proposals: due May 4, 2015.**

**URL:**


**Description:** SMD announces, through the release of this Cooperative Agreement Notice (CAN), an opportunity for the submission of proposals to collaborate with SMD in the execution of its science education efforts. The desired outcome of this CAN is to increase the overall coherence of the SMD science education program leading to more effective, sustainable, and efficient utilization of SMD science discoveries and learning experiences and to meet overall SMD science education objectives. Fundamental to achieving this outcome is to enable NASA scientists and engineers to engage more effectively with learners of all ages.