

May 17, 2017

## Engineering Research Transforming Our World



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### Research Funding Opportunities

**Organization: NSF RFP/Letter Name: Engineering and Systems Design (ESD) PD 17-1464 Due Date: September 15, 2017 Summary:** The Engineering and Systems Design (ESD) program supports fundamental research leading to new engineering and systems design methods and practices for specific global contexts. In particular, ESD seeks intellectual advances in which the theoretical foundations underlying design and systems engineering are operationalized into rigorous and pragmatic methods for a specific context. In addition, the program funds the rigorous theoretical and empirical characterization of new or existing methods for design and systems engineering, identifying in which global contexts and under which assumptions these methods are effective and efficient. Such a global context includes both a domain (such as energy systems, consumer products, cyber-physical systems) and an economic, socio-political, environmental and technological context. **Link:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13340&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13340&org=NSF&sel_org=NSF&from=fund)

**Organization: NSF RFP/Letter Name: Research in the Formation of Engineers (RFE) PD 17-1340 Due Date: September 27, 2017 Summary:** 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 21<sup>st</sup> 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 in order to improve quality of life for all peoples. The engineering profession must be responsive to national priorities, grand challenges, and dynamic workforce needs; and it must be equally open and accessible to all. **Link:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503584&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503584&org=NSF&sel_org=NSF&from=fund)

**Organization: NSF RFP/Letter Name: Computational and Data-Enabled Science and Engineering (CDS&E) PD 12-8084 Due Date: October 2, 2017 Summary:** Advanced computational infrastructure and the ability to perform large-scale simulations and accumulate massive amounts of data have revolutionized scientific and engineering disciplines. The goal of the CDS&E program is to identify and capitalize on opportunities for major scientific and engineering breakthroughs through new computational and data analysis approaches. The intellectual drivers may be in an individual discipline or they may cut across more than one discipline in various

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Directorates. The key identifying factor is that the outcome relies on the development, adaptation, and utilization of one or more of the capabilities offered by advancement of both research and infrastructure in computation and data, either through cross-cutting or disciplinary programs. **Link:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504813&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504813&org=NSF&sel_org=NSF&from=fund)

**Organization: DOD AFRL RFP/Letter Name AFRL Research Collaboration Program BAA-RQKM-2013-0005 Due Date: December 20, 2017 Summary:** The objective of the AFRL Research Collaboration program is to enable collaborative research partnerships between AFRL and Academia and Industry in areas including but not limited to Materials and Manufacturing and Aerospace Sensors that engage a diverse pool of domestic businesses that employ scientists and engineers in technical areas required to develop critical war-fighting technologies for the nation's air, space and cyberspace forces through specific AFRL Core Technical Competencies (CTCs). **Link:** <http://www.grants.gov/custom/viewOppDetails.jsp?oppId=212295>

**Organization: USDA RFP/Letter Name: Dual Use Technology Development at NASA John C. Stennis Space Center National Aeronautics and Space Center NNS17ZDA001C Due Date: September 30, 2017 Summary:** John C. Stennis Space Center (SSC) is the primary NASA rocket propulsion testing center. SSC tests items ranging from multi-engine stages to individual components of rocket engines. Propulsion test customers include NASA, the Department of Defense and the commercial space launch industry. SSC manages a large federal city that is home to over forty federal, state, university and industry entities. SSC manages a restricted airspace that is available for development, testing and operation of unmanned aerial vehicles. SSC engineering laboratories design and test electronics, sensors, algorithms and mechanical components.

**Link:** <https://www.grants.gov/view-opportunity.html?oppId=291476>

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