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1. SB152-001: Cell Free Platforms for Prototyping and Biomanufacturing

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   There is a critical need for capabilities that will enable DoD to leverage the unique and powerful attributes of biology to solve challenges associated with production of new materials, novel capabilities, fuels, and medicines. This topic is focused on improving the utility of cell-free systems as a platform technology to address key technical hurdles associated with current practices in engineeri ...

   SBIR Defense Advanced Research Projects AgencyDepartment of Defense

2. SB152-002: Cortical Modem Systems Integration and Packaging

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

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3. SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz – 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

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4. SB152-004: Many-Core Acceleration of Common Graph Programming Frameworks

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Today there is a DoD need for graph analytics capabilities, which are critical for a large range of application domains with a vital impact on both national security and the national economy, including, among others: counter-terrorism; fraud detection; drug discovery; cyber-security; social media; logistics and supply chains; e-commerce, etc. Widely used graph development frameworks have enabled o ...

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5. SB152-005: Ovenized Inertial Micro Electro Mechanical Systems

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a critical DoD need for capabilities that focus on temperature stabilization of MEMS inertial sensors to improve bias and scale factor stability. Military operations rely on satellite-based Global Positioning System (GPS) for precision Positioning, Navigation & Timing (PNT) information. However, GPS is an extremely small signal, which may be degraded due to signal interference or obstruct ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

6. SB152-006: Compact, Configurable, Real-Time Infrared Hyperspectral Imaging System

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a compelling DoD need to create a low cost, compact and reconfigurable infrared imaging spectrometer that can operate in real time, and in a variety of backgrounds and ambient conditions. Hyperspectral imaging (HSI) systems have been fielded for the detection of hazardous chemical and explosives threat materials, tag detection, friend vs. foe detection (IFF) and other defense critical sen ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

7. SB152-008: Low Cost Expendable Launch Technology

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

There is a compelling DoD need to leverage emerging commercial entrepreneurial and defense technologies enabling lightweight, high-specific-energy liquid-rocket technology. Many established aerospace and emerging entrepreneurial companies are developing new rocket stage technologies that promise to reduce the cost of access to space. The goal of this topic is to leverage these investments to enabl ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

8. 9.01: Advanced Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is “a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

9. 9.01.01.73-R: Category-Theoretic Tools to Support Manufacturing Information Integration

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

This subtopic is calling for a software tool to test the categorical formalism on integration problems in smart manufacturing and additive manufacturing. Category theory has been identified as a flexible and straightforward mathematical formalism for establishing compatibility of information structures and setting up the required information exchange. The software tool must enable the creati ...

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10. 9.01.02.73-R: Computer Aided Standards Development (CASD) – A Software Tool to Automate the Standards Development Process

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The development of documentary and test standards is a long and tedious process. Challenges facing standards developers include complex, inadequately defined terminology, and rapidly changing associated information content. Even after a standard is “set,” its implementation and adoption can be hampered by the gap between the technical requirements of that standard and the technol ...

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