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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 ...

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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. T1.01: Affordable Nano/Micro Launch Propulsion Stages

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):LaRC,KSC,GRCAs small satellites have become more capable of performing valuable missions for both government and commercial customers, there has been significant growth in both the quantity and quality of Nano and Micro Satellite missions. Currently these satellites can only be launched affordably as secondary payloads; but the number of these missions has o ...

STTR National Aeronautics and Space Administration

9. T1: Launch Propulsion Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Launch Propulsion Systems reflects a staged development of critical technologies that include both pull technologies that are driven by known short- or long-term agency mission milestones, as well as push technologies that generate new performance or mission capabilities over the next 20 to 25 years. While solid and liquid propulsion systems are reaching the theoretical limits of efficienc ...

STTR National Aeronautics and Space Administration

10. T11.01: Information Technologies for Intelligent and Adaptive Space Robotics

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):JSC,JPLThe objective of this subtopic is to develop information technologies that enable robots to better support space exploration. Improving robot information technology (algorithms and software) is critical to improving the capability, flexibility, and performance of future missions. In particular, the NASA "Robotics, Tele-Robotics, and Autonomous Systems" ...

STTR National Aeronautics and Space Administration

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