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- Relevancy (descending)
- Title (ascending)
- Open Date (descending)
- Close Date (ascending)
- Release Date (descending)

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Displaying 1 - 10 of 106 results

## 1. SB153-001: Soft Bio-Interfaces for Physiological Sensing and Modulation

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

* PROPOSALS ACCEPTED: Phase I and DP2 (Direct to Phase II). Please see the 15.3 DoD Program Solicitation and the DARPA 15.3 Phase I Instructions for Phase I requirements and proposal instructions.* TECHNOLOGY AREA(S): Biomedical, Sensors OBJECTIVE: Develop and demonstrate clinically-viable bio-interface technologies that have mechanical properties similar to tissue, yet can interface wit ...

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## 2. SB153-002: GHz, Octavespanning Photodetectors for MWIR/LWIR

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Chemical/Biological Defense, ElectronicsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in acc ...

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## 3. SB153-003: Tunable Cyber Defensive Security Mechanisms

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Information Systems OBJECTIVE: Define new cyber techniques and develop technologies for automatically generating and injecting realistic vulnerabilities into large code bases for the purpose of testing and evaluating cyber security tools and capabilities, and to enable novel pedagogical tools such as customized capture- the-flag competitions. DESCRIPTION: ...

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## 4. SB153-004: High-Sample Rate Analog to Digital Converters for Reconfigurable Phased Array Applications

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

* PROPOSALS ACCEPTED: Phase I and DP2 (Direct to Phase II). Please see the 15.3 DoD Program Solicitation and the DARPA 15.3 Phase I Instructions for Phase I requirements and proposal instructions.* TECHNOLOGY AREA(S): Electronics, Sensors OBJECTIVE: Develop high-sample rate, low power, analog-to-digital converters (ADCs) for elemental digital phased array antennas. By the end of Phase II ...

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## 5. SB153-005: Conformal, Random Access Beam Steering for Broadband Systems

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Sensors OBJECTIVE: Demonstrate a conformal, thin, broadband and rapid optical beam steering device without gimbals. DESCRIPTION: There is a critical DoD need for a new class of broadband, random access electro-optic sensors on lightweight, airborne platforms. A conformal, thin, broadband and rapid steering beam steering device would overcome the usual, d ...

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## 6. SB153-006: Medium Caliber Projectile Conformal Antenna RF Seeker

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, SensorsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section ...

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## 7. ST15C-001: Real-time Tabletop X-ray Nanoscope

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Materials/Processes OBJECTIVE: Design and develop a tabletop-scale, real-time nanoscope for three-dimensional imaging with ~13 nanometer spatial resolution. DESCRIPTION: There is a critical DoD need for the development of next generation microelectronics along with the supporting metrology infrastructure for their cost-effective fabrication. Maintaining ...

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## 8. ST15C-002: Analog Co-Processors for Complex System Simulation and Design

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems, Materials/Processes OBJECTIVE: Demonstrate that, in certain critical applications, analog processing architectures can significantly outperform the equivalent digital architectures and motivate the larger development and use of analog methods DARPA broadly in defense systems. DESCRIPTION: The efficient simulation of complex systems is of fundament ...

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## 9. 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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## 10. 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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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- …
- Next
- Last

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