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1. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

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2. SOCOM14-001: Power Supply for the Tactical Assault Light Operator Suit (TALOS)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Investigate and identify a suitable safe, lightweight power supply for the exoskeleton component of the TALOS ensemble. DESCRIPTION: The TALOS ensemble is a new initiative in USSOCOM that is intended to provide solutions for the enhanced mobility/protection/situational awareness capabilities to augment the direct assaulter. As such, the power supply for the TALOS ensemble wi ...

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3. SOCOM14-002: Advanced Transparent Armor Materials and Manufacturing Methods

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this feasibility study is to develop innovative transparent armor for Ground Mobility Vehicles (GMV) that is lighter than existing transparent armor and that is affordable. Develop innovative transparent armor that is at least 25% lighter at a given protection level and in the current space claim than current transparent armor in GMV. The cost of the innovative armor sh ...

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4. SOCOM14-003: Advanced Opaque Armor Materials and Manufacturing Methods

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a low cost, light weight armor package that has reduced visual signature while offering high protection against threats for Non Standard Commercial Vehicles (NSCV). DESCRIPTION: Modified commercial vehicles are a staple of Special Operations activities. One reason a commercial vehicle is used is to blend in with local vehicles. They serve a purpose of enabling advance mobi ...

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5. SOCOM14-004: Hydrogen Generation from Water and Full or Partial Replacement of Petroleum Fuels in Diesel Internal Combustion Engines

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a system to generate hydrogen from water on site for use in combatant craft diesel engines to decrease dependency of Naval Special Warfare on petroleum fuels and to increase craft fuel economy and range. DESCRIPTION: Improving fuel economy, reducing greenhouse gas emissions and minimizing fuel costs associated with Military vehicles is a necessity given dwindling budgets an ...

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6. SOCOM14-005: High Performance Marine Diesel Closed Coolant System for High Speed Combatant Craft

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a closed coolant system for the SOC-R to eliminate use of off-board, raw water to cool the engines. DESCRIPTION: SOC-R engine cooling is provided by raw water from the engine pumps and from the Hamilton jets. This raw water sometimes contains debris that clogs the engine strainers causing the engines to overheat. This is especially problematic during beaching operations wh ...

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7. SOCOM14-006: Low Acoustic Signature Manned Intelligence, Surveillance and Reconnaissance

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop active and passive noise suppression technologies to reduce the acoustical footprint of the King Air - 350ER (B - 300ER) manned Intelligence, Surveillance and Reconnaissance (ISR) platform. DESCRIPTION: Manned ISR platform operators need to strike a balance between operational factors. They must fly close enough to collect the mission data while maintaining sufficient stan ...

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8. DMEA13B-001: Electrochemical Micro-Capacitors Utilizing Carbon Nanostructures

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

TECHNOLOGY AREAS: Materials/Processes, Electronics The 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 accordan ...

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9. DMEA132-001: Miniaturized RF over Fiber

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Design and prototype a capability to use fiber optic cable to simultaneously distribute power (i.e power over fiber) while providing full duplex information flow. The capability will allow miniature microwave system components to be distributed over a relatively long distance (i.e. 30 meters or more) via fiber optics. For example, a processing node (within a microwave system) provid ...

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10. DMEA132-002: High Resolution Three-Dimensional Digital Reconstruction of Integrated Circuits

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a system for the accurate identification and analysis of semiconductor materials with integrated, high-resolution imaging capability for the three-dimensional digital reconstruction of integrated circuits (ICs). DESCRIPTION: As semiconductor geometries continue to diminish, so too does the applicability of traditional sample preparation tools. As the thickness of metal l ...

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