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1. A12-104: Foil-Air Bearings for Small Gas Turbine Engines

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Improve small gas turbine engine system weight and performance by developing foil-air bearings to support the main rotor shaft (s). DESCRIPTION: Small gas turbine engines for unmanned aerial systems and man-portable electric power generators need to be as light and efficient as possible to meet mission requirements. These small gas turbine engines currently use oil lubricated, conve ...

SBIR Army

2. A12-105: Instrument for Measuring Millimeter-Wave Polarimetric Bidirectional Reflectance Distribution Function

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Construct an instrument to measure the millimeter wave polarimetric bidirectional reflectance distribution function of objects. DESCRIPTION: Millimeter-wave (mmw) RADAR techniques may exhibit advantages over other imaging methodologies for aiding navigation in degraded visual environments, providing high-resolution terminal missile guidance, and detecting wires and small-caliber thre ...

SBIR Army

3. A12-106: Bio-Inspired Processor

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To research and develop an innovative, programmable, low-power, neuromorphic parallel processor that functions with power comparable to that of the biological neuron that is 1000 times more power efficient than popular processors available today. DESCRIPTION: The US Army ARDEC is in search of a novel means to address the urgent need for a low-power parallel processor with functional ...

SBIR Army

4. A12-107: Rapid Analysis of Suspicious Powders

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an innovative technology that enables rapid, on-site screening of"suspicious powders"to determine if a biothreat agent is present and if so, its identity. The technology should also enable concurrent documentation of the sample. DESCRIPTION: Since the mailing of Bacillus anthracis spores in 2001, there have been over 35,000 suspicious powder incidents reported in the US. ...

SBIR Army

5. A12-108: Ultra-Sensitive, Room-Temperature, Mechanical-Optical-Cavity Detectors for Long-Wavelength Applications

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To develop and demonstrate an ultra-sensitive, room-temperature, long-wavelength detector that utilizes the coupling between a combined mechanical-optical-cavity system at the micro-to-nanoscale to achieve operational performance that exceeds the state-of-the-art in the Far-IR and THz regions. DESCRIPTION: Optical forces are known to produce significant mechanical effects in micro- a ...

SBIR Army

6. A12-109: A Real-Time, Non-Invasive Monitoring System to Guide Accurate Fluid Resuscitation of Combat Casualties During Pre-Hospital and Transport Medical Care

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop an advanced decision-support medical monitor driven by algorithms that provide real-time processing of physiologic signals for the purpose of guiding accurate fluid resuscitation in humans who are hypovolemic due to hemorrhaging. The algorithm will run in real time on a resource constrained portable device. The final device should provide a wireless connection between the patien ...

SBIR Army

7. A12-110: Local Active Noise Reduction for MEDEVAC and CASEVAC

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop a litter-mountable active noise-reduction system that will reduce the level of noise in a Black Hawk MEDEVAC or CASEVAC helicopter to 80 A-weighted decibels (dBA) at the casualty"s head without interfering with monitoring of the casualty's condition or with in-transport medical treatment. DESCRIPTION: Medical evacuation of ill, injured, or wounded Soldiers often occurs in air ...

SBIR Army

8. A12-111: HCI and C2 for Autonomous Air Evacuation of Casualties

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: To investigate, propose and demonstrate prototype technical solutions addressing key elements of autonomous vertical takeoff and landing (VTOL) unmanned aircraft systems (UAS) for medical missions such as critical item resupply and casualty evacuation (CASEVAC). Specifically, to design and demonstrate prototype human computer interaction (HCI) and command and control (C2) subsystems fo ...

SBIR Army

9. A12-112: A New Generation of Actuators for Robotic Systems

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Design and prototype adaptive actuators for medical robotic systems to improve the robotic capacity needed for future medical robotic applications, such as heavy patient lifting, combat casualty evacuation, dexterous manipulation, and combat casualty care. DESCRIPTION: Background. Today"s robot systems have been evolving from industrial applications into human services. Robots are tr ...

SBIR Army

10. A12-113: Temperature-Controlled Transport Container for Packed Red Blood Cells

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop and demonstrate a materiel solution for a passive and thermally efficient temperature-controlled transport container (cold chain container) that has a service life of not less than 5 years without a need for normal repairs and maintenance. Identify method(s) to reduce or eliminate the need for preconditioning of the container. DESCRIPTION: Delayed casualty evacuation from far ...

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