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1. N133-147: Alternative Materials for Tactical Vehicle Wheeled Hubs

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

OBJECTIVE: The MTVR is the current medium tactical cargo vehicle for the Marine Corps. Efforts have been made to reduce the weight of the vehicle, to accommodate extra cargo, to accommodate up-armor kits, and to improve vehicle handling. One area of development is an innovative, advanced material system to replace the currently used mild to medium strength steel in the wheel hubs of the Medium Tac ...

SBIR Department of DefenseNavy

2. N133-148: Adaptive Diesel Engine Control

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

OBJECTIVE: The objective is to reduce the volume of fuel consumed by the MTVR engine during mission operations by 15-25% over current fuel consumption while increasing the power output of the engine by 5-10% over current engine rated capability. These goals will be reached thru modification of the Caterpillar C12 or similar engine enabling full and independent control of diesel engine components ...

SBIR Department of DefenseNavy

3. N133-149: Development of On-board Weight and Center of Gravity Measurement System for Tactical Vehicles

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

OBJECTIVE: The objective of this effort is to develop an innovative, cost-effective and reliable on-board weight and center of gravity (W & CG) measurement system for tactical vehicles. DESCRIPTION: Tactical wheeled vehicles routinely carry payloads of varied configurations to support the operating forces"diverse missions. To ensure safety while maximizing payload capacity, it is imperative th ...

SBIR Department of DefenseNavy

4. N132-084: Human Surrogate Test Target

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

OBJECTIVE: Design, build and test a test target approximating human anatomy, capable of generating the data required to populate existing government models that predict the risk of significant injury to humans subjected to various non-lethal stimuli. DESCRIPTION: Non-lethal weapon stimuli include blunt trauma, monochromatic (laser) and broadband (flashbang) light, blast over-pressure, thermal e ...

SBIR Navy

## 5. N132-085: Aqueous Based Automatic Fire Extinguishing System

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

OBJECTIVE: The development of an aqueous based, automatic, fire extinguishing system concept that provides protection to mitigate injuries from both short duration internal fires and longer duration external fires thereby allowing occupants to egress or be rescued. DESCRIPTION: Military vehicles may be exposed to external fires (fuel tank, tire, and/or engine) caused by Improvised Explosive Dev ...

SBIR Navy

## 6. N132-086: Prime Power System Development for Active Denial Technology (ADT) and High-Power Radio-Frequency (RF) Systems

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

OBJECTIVE: Development of a small, light-weight, prime power system for Directed Energy Weapons (DEW) capable of producing large amounts of power in very short but numerous timeframes. DESCRIPTION: As solid-state RF and millimeter wave (mm-wave) sources continue to revolutionize weapon systems while meeting Army, Navy, Marine, Air Force and Coast Guard requirements, there is a growing need for ...

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## 7. N132-087: Compact Radar Antenna

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

OBJECTIVE: To develop a compact, highly efficient antenna for two separate mobile high-power radar systems, one operating in L-Band frequency range (1-2 GHz) and the other in W-Band frequencies (95GHz). Radio frequency systems, using high power microwaves, operating in L-Band have military utility for RF Vehicle Stopping and non-lethal counter-electronics missions. RF Systems operating in the W-Ba ...

SBIR Navy

## 8. N132-088: Integrated Oil Condition Monitor and Debris Sensing System

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

OBJECTIVE: Develop an oil condition monitoring system for automated real-time evaluation of lubricant contamination and degradation, including the characterization of ferrous and non-ferrous debris and particulate. DESCRIPTION: Oil condition monitoring has been widely implemented by the Navy through the Joint Oil Analysis Program (JOAP), which provided common standards and practices for oil sam ...

SBIR Navy

**9.** N132-089: Simultaneous multi-beam high-bandwidth conformal tactical data link antenna systems

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

OBJECTIVE: Design and develop a conformal phased-array antenna with the capability to provide simultaneous multi-beam high-bandwidth tactical data links. DESCRIPTION: Real-time situational awareness information and voice communications are being exchanged across battle space using high bandwidth data links. These encrypted, jam-resistant communication systems use multilink antenna systems to si ...

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**10.** N132-090: Atmospheric Environmental Metrology for Electro-Optical/Infra-Red (EO/IR) Sensor Flight Test

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

OBJECTIVE: Design and develop a capability for measuring the atmospheric absorbers along the line-of-sight of airborne Electro-Optical/Infra-Red (EO/IR) sensors in support of sensor flight tests DESCRIPTION: Currently, flight tests of airborne EO/IR sensors typically rely on the use of data from radiosonde balloons to characterize the test atmosphere. However, radiosonde balloons measure the a ...

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