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1. DTRA122-001: Cost effective, semi-insulating bulk GaN substrates for radiation hard devices

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Investigate and develop a method for cost-effective growth of semi-insulating bulk GaN crystals suitable for use as substrates for radiation-hard electronics and detectors DESCRIPTION: Nuclear events present major challenges to the continuous, reliable operation of electronics and detectors. A variety of means have been developed to radiation-harden electronics technology, includi ...

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2. DTRA122-002: Develop Circuit Board Assembly Flexible/Formable Polymer Layer(s) with Very High Thermal Conductivity

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   DESCRIPTION: With advances in Microelctromechanical systems (MEMs) technologies, miniaturized smart munitions have been used in missiles as well as ordnance. The extremely small circuit board assembly (CBA) in these systems is one of the most critical parts of this new generation of smart munitions. However, limitations are being achieved due to the thermal heat budget of the MEMS components. T ...

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3. DTRA122-003: Chemical Biological Radiological Nuclear (CBRN)-Specific Transformational Materials for Combating Weapons of Mass Destruction (CWMD)

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop unique CBRN-specific transformational materials that augment our capabilities to detect individuals and/or materials associated with the development, manufacture, or proliferation of Weapons of Mass Destruction (WMD). DESCRIPTION: DTRA is exploring innovative technologies for CWMD by developing transformational materials to support Intelligence, Surveillance, and Reconnai ...

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4. DTRA122-005: Soil-Structure Interaction (SSI) Effects for Fully and Partially Buried Structures

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop simplified models to approximate soil effects for fully and partially buried structures. DESCRIPTION: Computing the response caused by munitions on fully and/or partially buried structures often necessitates using very large finite element (FE) models that include the soil in the structure"s vicinity. This is necessary in order to achieve sufficiently accurate results whic ...

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5. DTRA122-006: Design Combined Effects Explosives (CEX) Using Numerical Simulations

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop combined effects explosives (CEX) with design guidance from rigorous numerical simulations on detonation and afterburning behaviors of the explosives that provide superior performance in both metal accelerating capability and enhanced blasts. DESCRIPTION: The Defense Threat Reduction Agency (DTRA) seeks development of new combined effects explosives (CEX) that provide sup ...

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6. DTRA122-007: Compact High Intensity X-ray Generator and Metastable Inner-Shell Molecular State Warm Dense Matter Research

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop new technology for production of high intensity coherent or incoherent soft x-ray beams with high efficiency, based on warm dense matter in so-called Metastable Innershell Molecular State (MIMS). DESCRIPTION: DTRA is exploring innovative technologies for combating weapons of mass destruction, and wishes to explore use of high intensity x-ray beams, produced by cold compre ...

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7. DTRA122-008: Reactive Structural Materials for Enhanced Blasts

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop reactive structural materials (RSM) that will replace steel cases of munitions so that the munitions will generate much stronger blast performance while maintaining a certain degree of penetration capability into targets. DESCRIPTION: The Defense Threat Reduction Agency desires to develop reactive structural materials (RSM) for increased blast effectiveness of certain munit ...

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8. DTRA122-009: Insensitive Munitions Disposal Attack

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a means of causing detonation of Insensitive Munitions (IM) and/or bulk Insensitive High Explosives (IHE) without using large amounts of donor explosives. Device needs to be capable of attacking IM ranging in size from 81mm to missile warheads and bulk explosives in quantities exceeding five pounds. DESCRIPTION: A means is needed to assist in

the disposal of munitions or de ...

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9. DTRA122-010: Intelligent Clothing for Rapid Response to Aid Wounded Soldiers

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop uniforms with integrated sensors built into the fabric allowing for measurement of overall health, detection of bullet location, detection of exposure to CBRNE (Chemical Biological Radiological Nuclear and Explosive) agents, and communication capabilities to provide location via GPS coordinates as well as critical health assessment information to medical personnel regarding the ...

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10. DTRA122-012: Non-Intrusive Filler Identification

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a prototype, stand-off, individual portable, light weight, all-weather, self-powered device to identify the filler of unknown ordnance and suspect devices without opening the case for sampling in order to determine safety precautions, protective measures, and disposal methods while wearing chemical protective clothing. DESCRIPTION: First responders need the capability to q ...

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