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1. A152-090: Linear Inflow Model Synthesis for Advanced Rotorcraft Configurations

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current linear rotorcraft flight dynamics models are dependent on finite-state inflow theory based on potential flow modeling at the rotor plane [1]. These inflow models have few parameters and are readily available in linear state-space form, making them easy to implement in flight dynamic models for stability assessment and control system design studies. These types of models have been developed ...

SBIR ArmyDepartment of Defense

2. CBD152-001: Adjustable Focus Lenses for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

3. 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 ...

SBIR Defense Advanced Research Projects AgencyDepartment of Defense

4. CBD152-002: Smart Split Neck Seals for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

5. CBD152-003: Development of Mycotoxin Medical Countermeasures

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

6. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The explosion in the “omics” field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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7. CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

8. CBD152-006: Signal Processing for Layered Sensing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

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9. DMEA152-001: Rapid Non-destructive Detection of Advanced Counterfeit Electronic Material

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Counterfeit and subversively modified electronic components represent a substantial threat to Department of Defense (DoD) systems. Testimony to the Senate Armed Services Committee (SASC) concluded that “the scope and impact of counterfeits is not known … counterfeit electronic parts can compromise performance and reliability, risk national security, and endanger the safety of military personne ...

SBIR Department of Defense

10. DMEA152-002: Analysis of Integrated Circuits Using Limited X-rays

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The DARPA TRUST program established the potential usefulness of using an X-Ray microscope to analyze ICs at a synchrotron. We would like to further that development using a lab based X-Ray source. When utilizing a lab X-ray source, acquisition times for X-ray images increase significantly compared to using a synchrotron X-ray source. This is due to the decreased number of X-ray photons (i.e., X-ra ...

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