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1. A15-102: CFD Runtime Acceleration on New Chip Architecture

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop a callable library of CFD numerical operations that exploit the performance of CFD solvers on new “many integrated core” processors such as the Intel® Xeon PhiTM. DESCRIPTION: Computer chip makers like Intel have recently introduced the advanced Many-Integrated-Core (MIC) architecture [1] with the goal of enhancing performan ...

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2. A15-103: Rotorcraft Elastic Fuselage Coupling with CFD

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Develop coupling methodology for computational structural dynamics (CSD) and computational fluid dynamics (CFD) models of flexible rotorcraft fuselage and empennage structures to predict interactional buffet airloads, structural loads, and vibration. DESCRIPTION: One of the most important, challenging, and chronic problems occurring during deve ...

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3. A15-104: Development of Additive Manufacturing for Aerospace Gear

Applications

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/Processes OBJECTIVE: Develop and demonstrate an additive manufacturing process for advanced aerospace gears meeting or exceeding the mechanical properties of SAE AMS 6308. DESCRIPTION: The lead time for manufacturing gears for testing in Science and Technology (S&T) prototype demonstrators can be several months and requires costly special tooling. Additi ...

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4. A15-105: Innovative Matrix Systems for Carbon Fiber Reinforced Composite Tactical Rocket Motor Applications

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/ProcessesThe 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 accordance with section ...

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5. A15-106: Hybrid Thermoplastic Matrix Fabrication Methods for Missile Structures

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/ProcessesThe 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 accordance with section ...

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6. A15-107: Novel Materials for Kinetic Energy Penetrators

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): WeaponsThe 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 accordance with section 5.4.c.(8) of ...

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7. A15-108: Innovative Technologies for Detection and Discrimination of Surface and Buried Explosive Hazards

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, SensorsThe 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 accordance with section ...

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8. A15-109: Multi-static Ground Penetrating Radar for Buried Explosive Hazard Detection

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, SensorsThe 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 accordance with section ...

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9. A15-110: Continuous IAVA Mitigation & Remote Client Support for Tactical Systems

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information SystemsThe 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 accordance with section ...

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10. A15-111: Real-time Measurement of Dose from Prompt Gamma and Neutron from Nuclear Blast

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Nuclear Technology OBJECTIVE: Develop a real-time detector capable of accurately measuring the dose from prompt gamma and prompt neutron from a nuclear blast. DESCRIPTION: The Defense community has a need for detecting and measuring the prompt gamma and prompt neutron from a nuclear blast. When a nuclear weapon detonates,

it creates both prompt (also called initial) a ...

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