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ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Joint Project Manager for Nuclear Biological Chemical
Contamination Avoidance

Presented by: COL Jeffrey Woods

5 Nov 2015

The forecast data is for planning purposes, does not represent a pre-solicitation synopsis, does not constitute an invitation for bid or request for proposal, and is not a commitment by the government to purchase the desired products and services



CHEMICAL BIOLOGICAL TEST INFRASTRUCTURE UPGRADE JOINT AMBIENT BREEZE TUNNEL (JABT) ACTIVE STANDOFF CHAMBER (ASC)

- Provides upgraded dissemination control area in the JABT to accommodate Test Grid integration, new dissemination equipment, and sample handling
- Integrate the JABT and ASC into the Test Grid Data Management System (DMS).
- Provides improved power and network access throughout the infrastructure to increase efficiency with communications between the JABT and ASC



OPPORTUNITY

TITLE: CB Test Infrastructure JABT & ASC upgrades

CONTRACT TYPE: CPFF

ESTIMATED VALUE: \$3.5M-\$4.5M

CONTRACTING CONTACT: Eric Braerman (ACC-APG Edgewood), 410-436-4469

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: 4QFY16

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DISMOUNTED RECONNAISSANCE SETS, KITS AND OUTFITS (DR SKO) TECHNOLOGY REFRESH/INSERTION

- Procure components which can better meet requirements, are becoming obsolete, have high sustainment costs, etc. Focus on detection and identification capabilities and potentially other components as demand requires.
 - Multiple Requests for Information (RFI) annually
 - Follow-on third-party purchase for test articles (RDT&E) through existing contract mechanisms (existing prime, DLA, etc.)
 - Multiple Candidates Desired
 - Production of selected candidates via existing production mechanisms

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OPPORTUNITY

TITLE: DR SKO Technology Refresh/Insertion – Solid and Liquid Detection Identification Kit

CONTRACT TYPE: FFP

ESTIMATED VALUE: \$1M-\$2M

CONTRACTING CONTACT: Jonita Joyner, Army Contracting Command, 410-346-8426

SOLICITATION #: RFI W911SR-15-R-Detection-ID

ESTIMATED SOLICITATION RELEASE DATE:
RFI: September 2015 (closes 29 October 2015)
Purchases: February 2016

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OPPORTUNITY

TITLE: DR SKO Technology Refresh/Insertion – Trace Explosive Detection Kit

CONTRACT TYPE: FFP

ESTIMATED VALUE: \$1M-\$2M

CONTRACTING CONTACT: Jonita Joyner, Army Contracting Command, 410-346-8426

SOLICITATION #: RFI TBD

ESTIMATED SOLICITATION RELEASE DATE:

RFI: 2QFY16

Purchases: 3QFY16

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OPPORTUNITY

TITLE: DR SKO Technology Refresh/Insertion – Toxic Industrial Chemical Detection (Vapor)

CONTRACT TYPE: FFP

ESTIMATED VALUE: \$2M-\$4M

CONTRACTING CONTACT: Jonita Joyner, Army Contracting Command, 410-346-8426

SOLICITATION #: RFI TBD

ESTIMATED SOLICITATION RELEASE DATE:

RFI: 1QFY17

Purchases: 3QFY17

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NBCRV SENSOR SUITE UPGRADE CHEMICAL SURFACE DETECTOR (CSD)

- Replacement of the Dual Wheel Sampling System on the Stryker NBCRV;
 - Performance deficiencies of the Dual Wheeled Sampling System (DWSS) limit the chemical reconnaissance capability of the NBCRV.
 - Replacement will allow increased maneuver speeds during survey and reconnaissance missions.



OPPORTUNITY

TITLE: NBCRV Sensor Suite Upgrade – Chemical Surface Detector

CONTRACT TYPE: CPFF

ESTIMATED VALUE: \$8.5M-\$9.5M

CONTRACTING CONTACT: William Mebane, Army Contracting Command, 410-346-6797

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE:
January 2016

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NBCRV SENSOR SUITE UPGRADE

JOINT SERVICE LIGHTWEIGHT STANDOFF CHEMICAL AGENT DETECTOR (JSLSCAD)

- Enhance Detection Capability through Development of a Reduced Field of View Scanner
- Improves Probability of Detection of Chemical Clouds at Greater Distances



OPPORTUNITY

TITLE: NBCRV Sensor Suite Upgrade – Joint Service Lightweight Chemical Agent Detector

CONTRACT TYPE: CPIF

ESTIMATED VALUE: \$5M-\$6M

CONTRACTING CONTACT: Alex Schupp, Army Contracting Command, 410-436-1331

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: 1QFY17

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JOINT CBRNE ADVANCED CAPABILITY SETS ADVANCED TECHNOLOGY DEMO (JCACS ATD)

- Acquire enhanced equipment to support dismounted CBRNE missions.
 - Desired Equipment includes;
 - Protective ensembles with reduced burden.
 - Improved personnel and materiel contamination mitigation.
 - Improved CBRNE sensors and robotic platforms.
 - Sensor networking and real-time reach-back capabilities
 - Multiple Requests for Information (RFI)
 - Follow-on third-party purchase through existing contract mechanisms
 - Multiple Candidates Desired



OPPORTUNITY

TITLE: Joint CBRNE Advanced Capability SETS Advanced Technology Demo (JCACS ATD)

CONTRACT TYPE: Multiple third party FP purchases

ESTIMATED VALUE: \$4.5M-\$5.5M (Total value of all purchases)

CONTRACTING CONTACT: Alex Schupp, Army Contracting Command, 410-436-1331

SOLICITATION #: RFI W911SR-15-JCACCS-ATD

ESTIMATED SOLICITATION RELEASE DATE:

Current RFI closes 16 Nov 15

Follow-on RFI anticipated in 2QFY17

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NEXT GENERATION CHEMICAL DETECTOR (NGCD)

NGCD will detect and identify non-traditional agents, chemical warfare agents, toxic industrial chemicals in the air and on surfaces.

- **NGCD 1**; Detector Alarm - Rapid vapor /aerosol area monitor to detect to warn; Continuous monitor post encounter
- **NGCD 2**; Survey Detector - Indirect scanning/ targeting of surface to locate and survey contamination boundaries
- **NGCD 3**; Sample Analysis - Analytical sensor/ identifier with multi-phase sampling capabilities to collect at site and introduce to sensor

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OPPORTUNITY

TITLE: Next Generation Chemical Detector (NGCD)

CONTRACT TYPE: CPIF, FFP

ESTIMATED VALUE: TBD

CONTRACTING CONTACT: Eric Braerman (ACC-APG Edgewood), 410-436-4469

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE:

- Issue RFP: 4QFY16
- Forecast Award: 3QFY 17

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SAFARI TEST GRID SYSTEM INFRASTRUCTURE

- The Safari enhancement to the existing Test Grid architecture allows for the global mobility of the unique Test Grid System Infrastructure providing the ability to test in all major environmental conditions with a closed network capable of data analytics.

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OPPORTUNITY

TITLE: Safari Test Grid System Infrastructure

CONTRACT TYPE: CPFF

ESTIMATED VALUE: \$2M-\$3M

CONTRACTING CONTACT: Eric Braerman (ACC-APG Edgewood), 410-436-4469

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: 1QFY17

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SCREENING OBSCURATION MODULE (SOM)

- A small obscurator generator system designed to replace outdated smoke pots.
 - Effort will include the research, development, test/evaluation (RDTE) and an option for production.
 - The SOM will be capable of being deployed on manned and unmanned platforms or dismounted and operated as a stand-alone system.

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OPPORTUNITY

TITLE: Screening Obscuration Module (SOM)

CONTRACT TYPE: CPIF

ESTIMATED VALUE: \$11.5M-\$12.5M

CONTRACTING CONTACT: Alex Schupp, Army Contracting Command, 410-436-1331

SOLICITATION #: Draft RFP W911SR-16-R-0002 (21 Oct – 5 Nov 15)

ESTIMATED SOLICITATION RELEASE DATE: December 2015

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ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Defense Threat Reduction Agency
DTRA-CB-J9

Presented by: Rich Schoske
5 Nov 2015

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DTRA J9CBA – DIAGNOSTICS, DETECTION AND DISEASE SURVEILLANCE OVERVIEW

Vision: Comprehensive early warning to reduce biological and chemical threats

Focus Areas

- Assays and Biomarkers
 - Development and verification of rapid, sensitive, and specific tests for the identification of Chemical Biological Warfare Agents (CBWAs)
 - Discovery of host biomarkers generated in response to exposure to biological threat agents
- Detection and Diagnostic Systems Development
 - Detection and identification of chemical and biological threats in near real-time
 - Diagnostic device development to include systems able to harness next generation technologies to revolutionize clinical diagnostics in care facilities and in hospital laboratories
 - Future programs focus on the improvement of algorithms, excitation sources, and detector elements to increase warning time, reduce false positives, increase sensitivity, and reduce cost
- Disease Surveillance
 - Development of a biosurveillance framework and integration and demonstration of standards-based device-to-cloud connectivity
 - Development and testing of Buddy-care devices and Role 1 diagnostic device solutions with capability of data upload
 - Next generation analytic capabilities for prediction, early warning and forecasting.

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OPPORTUNITY

TITLE:

- **CBA-01 In Situ Protein and Gene Expression Platform Technologies for Host Response Biomarker Methods and Analysis**

CONTRACTING CONTACT:

Lt Col David Watson,
DTRA J9CBA Assays and Biomarkers
david.g.watson22.mil@mail.mil

SOLICITATION #: HDTRA1-14-CHEM-BIO-BAA Amd #3

ESTIMATED SOLICITATION RELEASE DATE: Sept 28, 2015

Specific questions about open solicitation topics should be sent to: dtra.belvoir.J9.mbx.CB-FY14-16-BAA@mail.mil

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OPPORTUNITY

TITLE:

- CBA-02 Ultra-Rapid, Low Power Multiplexed PCR-based Molecular Diagnostics Point-of-Care Devices
- CBA-03 Pre-Analytical Method Refinement: Novel Bio-Sample Collection, Preservation, and Preparation
- CBA-04 Discovery of Proteomic Signatures to Distinguish Pathogen Growth Conditions
- CBA-05 Personal Chemical Hazard Detector

CONTRACTING CONTACT:

Dr. Brandi Vann,
DTRA J9CBA Diagnostic & Detection Systems Development
brandi.c.vann.civ@mail.mil

SOLICITATION #: HDTRA1-14-CHEM-BIO-BAA Amd #3

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OPPORTUNITY

TITLE:

- CBA-06 New Analytics and Data Sources to Support Global DoD Biosurveillance
- CBA-07 Making Disease Forecasts Actionable: Novel displays, Uncertainty Quantification and Ensemble Approaches
- CBA-08 Field Forward Diagnostics
- CBA-09 Predicting Disease (Re)Emergence
- CBA-10 Evaluation of Wearable Technologies for Early Indication of Health Changes
- CBA-11 Can Social Media Data Predict the Future?

CONTRACTING CONTACT:

Dr. John Hannan,
DTRA J9CBA Disease Surveillance
john.r.hannan2.civ@mail.mil

SOLICITATION #: HDTRA1-14-CHEM-BIO-BAA Amd #3

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