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1

ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Joint Project Management Office for Information Systems
Presented by: Michael Steinmann
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



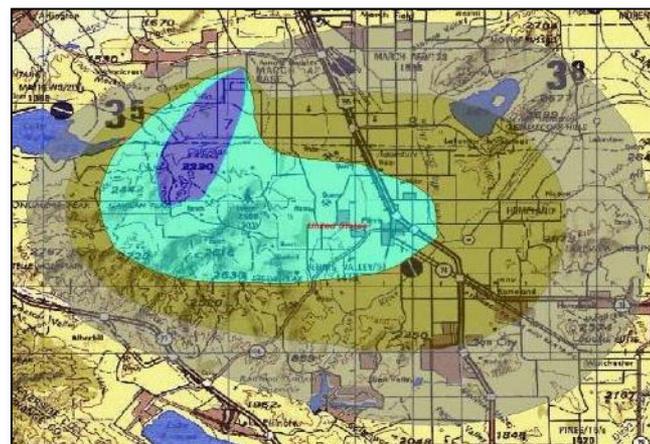
PROGRAM OVERVIEW –JEM

Provides the single DoD-approved, operationally tested, and accredited methodology to model a common representation of CBRN hazard areas and effects resulting from CBRN and TIC/TIM incidents.

Using weather, terrain, agent characteristics, and advanced physics modeling, JEM provides an enhanced situational awareness of the operational environment for decision support and risk mitigation.

JEM models CBRN hazard transport and dispersion, ground contamination, and resultant human physiological effects for:

- Chemical-Biological Weapon Strikes
- Chemical-Biological Facility Strikes
- Nuclear Weapon Detonation
- Nuclear Weapon Incidents
- Radiological Weapon Detonation
- Chemical Weapon Storage Incidents
- High Altitude Release
- TIC/TIM Releases
- Effects of Missile Intercept
- Urban Dispersion Modeling



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TITLE: Joint Effects Model (JEM) 1.0 & 2.0 – Development, Modernization, & Sustainment

CONTRACT TYPE: Single award IDIQ. Task Orders will be CPIF or CPFF, Completion or Level of Effort.

ESTIMATED VALUE: \$30-55M

CONTRACTING CONTACT:

**David J. Shriner
Contracting Officer, ACC-APG
E4215 Austin Road
APG, MD 21010-5401
david.j.shriner3.civ@mail.mil
(410)436-0642**

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: 2QFY16

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PROGRAM OVERVIEW –JWARN

Provides Joint Force Commander (JFC) with the capability to:

Report CBRN and Toxic Industrial Materials (TIMs) hazard detection.

- Collect, generate, edit, and disseminate NBC plots on C2 platforms to provide a Common Operational Picture (COP) for the Warfighter
- Collect, generate, edit, and disseminate NBC reports (NBC-1/NBC-4)

Analyze detections to enable identification of the hazard and plot affected locations.

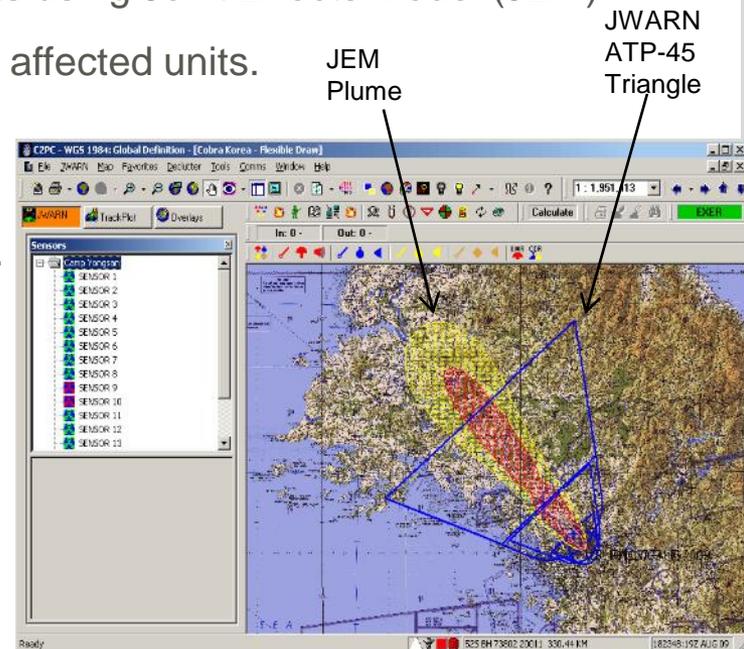
- Auto generation of ATP-45 hazard warning area
- Generation of more detailed hazard area plots using Joint Effects Model (JEM)

Disseminate warning and de-warning information to affected units.

Auto retrieval and archiving of event data to enable post operations forensic evaluation.

Control and configure a local sensor network (LSN).

- Interfaces with sensor detectors:
 - M22 (ACADA)
 - ADM-300A
 - AN/VDR-2
 - M8A1
 - JCAD
 - M21 (RSCAAL)
 - JSLSCAD



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TITLE: Joint Warning and Reporting Network (JWARN) Increment 1 Sustainment, Increment 2 Development

CONTRACT TYPE: Single award IDIQ. Task Orders will be CPIF or CPAF, Completion or Level of Effort.

ESTIMATED VALUE: \$30-50M

CONTRACTING CONTACT: David Shriner if ACC is used. If not, will be JE-RDAP vehicle.

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SOLICITATION #:TBD

ESTIMATED SOLICITATION RELEASE DATE: 1QFY18 (in NOV 2017 anticipating a June 2018 award date).

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PROGRAM OVERVIEW - BSP

Provides a web-based enterprise environment that facilitates collaboration, communication, and information sharing in support of the detection, management, and mitigation of man-made and naturally occurring biological events. Facilitates the fusion of multiple unclassified information sources.

Requirements: USSOCOM Information Systems Capability Development Document (IS CDD) dated May 2014

IOC: 3QFY16

FOC: 3QFY20

- **Unclassified**
- **Cloud Hosted**
- **DoD**
- **Interagency**
- **Foreign Partners**

Missions

- **CWMD**
- **Force Health Protection**



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TITLE: Biosurveillance Portal (BSP) – Development, Modernization, & Sustainment

CONTRACT TYPE: Single award IDIQ. Task Orders will be CPAF or CPIF, Completion or Level of Effort.

ESTIMATED VALUE: \$35-55M

**CONTRACTING CONTACT:
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SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: 4QFY16

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PROGRAM OVERVIEW- CBRN IS

Provides an “End-to-End”, easily accessible set of CBRN Enterprise capabilities through web services utilizing Service Oriented Architecture (SOA).

This strategy will leverage:

- CBRN Hazard Awareness and Understanding
- Joint Information Environment

Benefits:

- Reduce total cost of ownership
- Reduced cost of test
- CBRN customers can access information resources from any authorized IT device from anywhere in the world



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TITLE: CBRN Information Systems (CBRN IS)

CONTRACT TYPE: CPAF, CPIF

ESTIMATED VALUE: \$15-50M

CONTRACTING CONTACT: TBD

SOLICITATION #: TBD

ESTIMATED SOLICITATION RELEASE DATE: TBD

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ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Defense Threat Reduction Agency
DTRA-CB-J9
Presented by: Jerry Glasow
5 Nov 2015

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PROGRAM OVERVIEW - CBI PLANS: FY16 & BEYOND

Hazard Prediction & Warning

- Joint Effects Model Science and Technology Prototype
- Comprehensive Waterborne Transport & Dispersion (T&D)
- Advanced Transport & Dispersion (SCIPUFF Improvements)
- Missile Intercept Modeling Transport & Dispersion
- Hi-Resolution and Probabilistic Meteorology for T&D Applications
- Independent Validation
- Synthetic Environments
- NTA Source Term Generation Models and Simulant Testing
- Agent Fate of Traditional and NTA CWA
- Multi-Scale Urban & Interior Models (In > Out, Out > In, Source Term Est.)

Risk & Operational Effects

- Analysis Support Program (Questions → Data, Methods, Tools → Capabilities)
- Health and Human Effects Modeling
- Risk-based Planning/Analysis/Operational Effects (Army, Navy & Air Force)
- Gen-2 System Performance Models

Data

- Field T&D Databases and Websites for Permanent Test Archival
- Chemical Biological Warfare Agent Effects Manual (CB-1)
 - Transport & Dispersion; Equipment; Medical Diagnostics & Protection; Meteorological, Geographic, & Environmental Data; Consequence Assessment & Management; Battlespace Management; Reconnaissance; etc.

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PROGRAM OVERVIEW - CBA PLANS: FY16 & BEYOND

Vision

Provide and use CBRN information and analysis capabilities to enable and support operational & programmatic decision-making.

IS Focus Area:

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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PROGRAM OVERVIEW: DOING BUSINESS WITH DTRA

Broad Agency Announcements (BAA)

- Grants
- Contracts

Small Business Innovation Research (SBIR)

Small Business Technology Transfer (STTR)

Requests for Proposals (RFP) / Contracts

CWMD Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract

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CBA OPPORTUNITIES

TITLE:

- CBA-05 New Analytics and Data Sources to Support Global DoD Biosurveillance
- CBA-06 Making Disease Forecasts Actionable: Novel displays, Uncertainty Quantification and Ensemble Approaches
- CBA-07 Field Forward Diagnostics
- CBA-08 Predicting Disease (Re)Emergence
- CBA-09 Evaluation of Wearable Technologies for Early Indication of Health Changes
- CBA-10 Can Social Media Data Predict the Future?

CONTRACTING CONTACT:

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

SOLICITATION #: JSTO-CBD FY14/16 Service Call Amd #3

ESTIMATED SOLICITATION RELEASE DATE: Oct 5, 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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BASIC RESEARCH BAA SOLICITATION: HDTRA1-11-16-BRCWMD-BAA

In effect March 2011-September 2016; posted at Grants.gov

TRL1 and early 2; Basic (6.1) research

Multiple and consecutive opening & closing periods

- AT LEAST one annual opportunity solicited by an Amendment to the BAA; usually posted to Grants.gov in early December

All applications MUST be submitted to www.grants.gov using the application packages posted with the opportunity

Resulting awards will be grants only

Four categories of awards: Single Scope; Multidisciplinary; Young Investigator; Seed Awards

Questions? Email: dtra.belvoir.J9.mbx.HDTRA1-BRCWMD-A@mail.mil

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FUNDAMENTAL RESEARCH BAA SOLICITATION: HDTRA1-14-24-FRCWMD-BAA

In effect March 2015-September 2024; posted at Grants.gov

TRL1, 2, 3, and ~early 4; Basic and exploratory Applied Research
(6.1 & 6.2)

Applications **MUST** be submitted to Grants.gov using the application packages posted with the opportunity

Majority of resulting awards will be grants; other award types are permissible

BAA continuously OPEN for good ideas

HOWEVER – interested parties must first send e-mail (200 word max)
to Thrust Area Email detailed in BAA

Based on interest, a White Paper may be accepted

Questions? Email: dtra.belvoir.J9.mbx.HDTRA1-FRCWMD-A@mail.mil

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CHEM-BIO TECHNOLOGIES BAA SOLICITATION: HDTRA1-14-CHEM-BIO-BAA

Chemical Biological Technologies Department BAA, FY2014 – FY2016 Program Build

Applied Research & Advanced Technology Development

Seeks R&D projects with strong technical merit valuable to program requirements and goals to improve military chemical and biological defense capabilities

**Amendment 3 Open, Phase I Proposal Receipt Deadline
November 30, 2015 at 1400 ET.**

Parallel DoD/Government 'Service Call' for Government Labs

Questions? Email: dtra.belvoir.J9.mbx.CB-FY14-16-BAA@mail.mil

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**R&D INNOVATION AND SYSTEMS ENGINEERING OFFICE,
SCIENCE AND TECHNOLOGY NEW INITIATIVES BAA
SOLICITATION: HDTRA1-11-16-RDIS-BAA**

Efforts that advance technical state-of-the-art or increase knowledge and understanding to combat WMD

BAA continuously OPEN for innovative technologies;
Phase I (Quad Chart/2-page White Paper) submissions
may be made at any time

TRL 2 thru TRL 5

Five Topic Areas (Chemical/Biological; Counter WMD;
Radiation/Nuclear; Reachback and Decision Support; and
Treaty Verification and Compliance)

Questions? Email: [dtra.belvoir.J9.mbx.RDIS-11-16-
BAA@mail.mil](mailto:dtra.belvoir.J9.mbx.RDIS-11-16-BAA@mail.mil)

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CWMD RD IDIQ CONTRACTS

10-year-Multi-award \$4B Ceiling

Capability to conduct research and development resulting in the delivery of data, hardware, software, equipment and documentation for the 11 functional areas listed below:

1. Counter WMD Weapons and Targets
2. Modeling and Simulation
3. Systems Engineering
4. Systems Survivability
5. WMD Physical Countermeasures
6. WMD Medical Countermeasures
7. Technical Nuclear Forensics
8. Nuclear Detection
9. Standoff Detection
10. Treaty and Verification Technologies
11. Sensor Platforms

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CBD SBIR AND STTR

The Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs are:

Congressionally-mandated programs

Established to fund R&D at small businesses

Three-phased process

Funded as a set-aside assessment of extramural R&D budget

U.S. Small Business Administration (SBA) programmatic authority over federal SBIR & STTR programs (Program Policy Directives)

DoD has 12 SBIR/STTR Programs ('components')

- DTRA and Chem/Bio Defense (CBD) represent two separate programs; see: <https://sbir.defensebusiness.org>

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DOD SBIR/STTR SOLICITATIONS

Dates established by OSD Office of Small Business Programs; not all DoD Components participate in each solicitation; **CBD SBIR to participate in FY16.1 cycle and CBD STTR in FY16.C cycle**

A DoD Agency-wide announcement includes:

- DoD Instructions
- Service/Component-specific Instructions
- Topics

Solicitation Schedule – FY16

Solicitation	Pre-Release	Open	Close
SBIR 16.1 & STTR 16.A	11 Dec 15	11 Jan 16	17 Feb 16
SBIR 16.2 & STTR 16.B	22 Apr 16	23 May 16	22 Jun 16
SBIR 16.3 & STTR 16.C	26 Aug 16	26 Sep 16	26 Oct 16

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PROPOSAL SUBMISSION

Basic Research (Solicitation HDTRA1-11-16-BRCWMD-BAA) and Fundamental Research (Solicitation HDTRA1-14-24-FRCWMD-BAA) submitted to:

<http://www.grants.gov>

Chem-Bio Technologies BAA (Solicitation #HDTRA1-14-CHEM-BIO-BAA) and the R&D Innovation and Systems Engineering Office, Science and Technology New Initiatives BAA (Solicitation HDTRA1-11-16-RDIS-BAA) submitted to:

<https://www.dtrasubmission.net>

ALL DoD SBIR & STTR proposals (small businesses only) submitted to:

<https://sbir.defensebusiness.org>

Proposals only accepted via electronic submission

READ THE INSTRUCTIONS!

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SOME HELPFUL RESOURCES

Business Opportunities at DTRA:

<http://www.dtra.mil/Contracts/BusinessOpportunities.aspx>

Doing Business with DoD:

http://www.defense.gov/landing/contract_resources.aspx

Guide to DoD Contracting Opportunities:

http://www.acq.osd.mil/dpap/cpic/cp/docs/Doing_Business_with_DoD_%282Jun14%29.pdf

Federal Business Opportunities: <https://www.fbo.gov/>

Grants.Gov: <http://www.grants.gov>

DoD Office of Small Business Programs – Doing Business with the DoD: <http://www.acq.osd.mil/osbp/sb/dod.shtml>

DoD SBIR/STTR Program Information for Small Business:

<https://sbir.defensebusiness.org>

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PROGRAM POINTS OF CONTACT

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