



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY 2013

*Welcome to the
2013 Advanced Planning Briefings to Industry*



Aberdeen Proving Ground: Where Innovation Thrives!



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Program Executive Office for Chemical and Biological Defense



Carmen Spencer
Joint Program Executive Officer for
Chemical and Biological Defense
5 December 2013

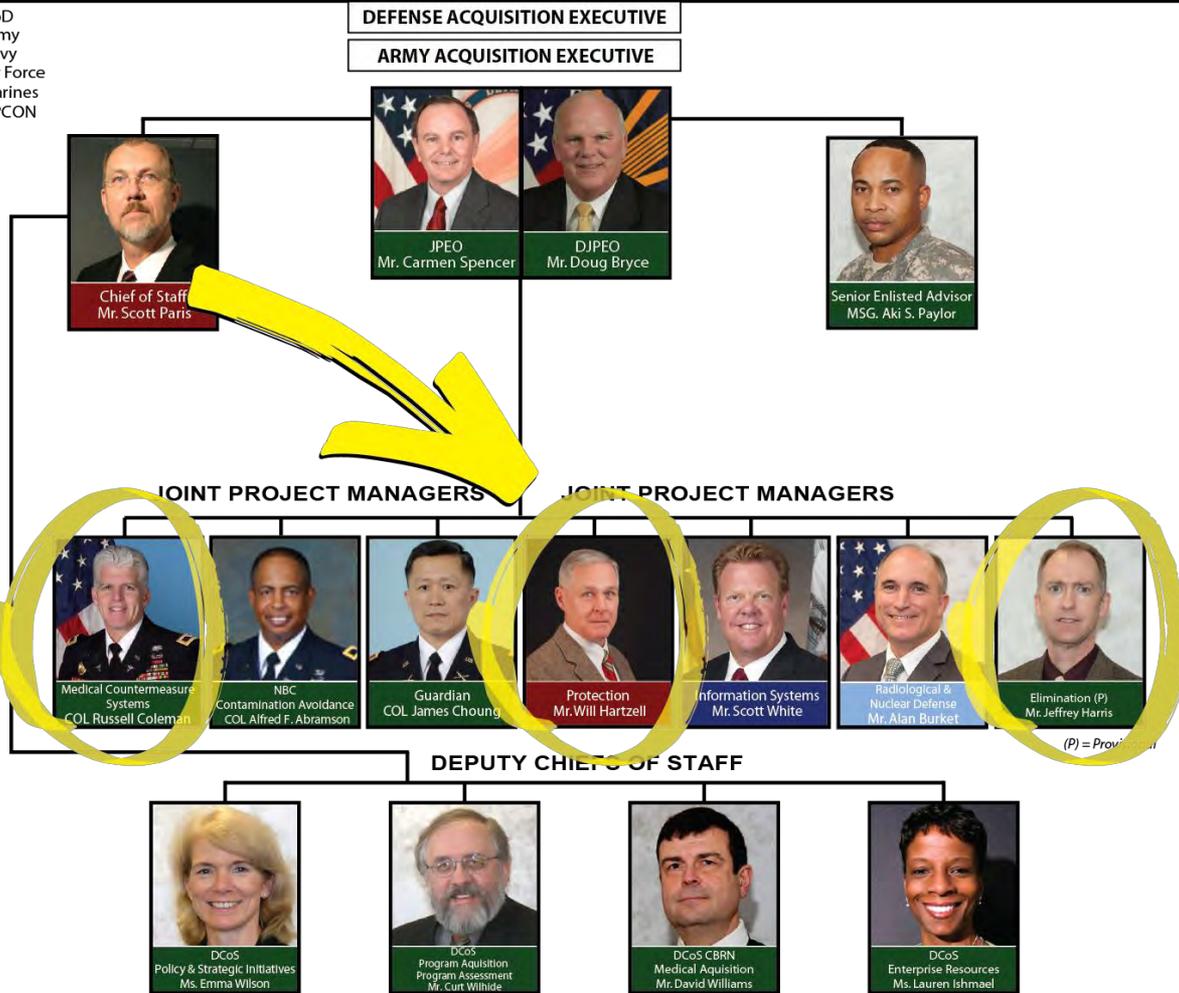
The forecast data is for planning purposes, does not represent a pre-solicitation synopsis, does not constitute an invitation for bid or request for proposal, and is not a commitment by the government to purchase the desired products and services



JPEO-CBD Organization



- DoD
- Army
- Navy
- Air Force
- Marines
- OPCON





APBI Disclaimer



- **While we are presenting our currently planned business opportunities, we recognize that these may change given our changing fiscal environment and the strategic guidance of the Department of Defense.**
- **New starts and increases to production levels in FY14 will be delayed until the Appropriations Bill has been passed.**

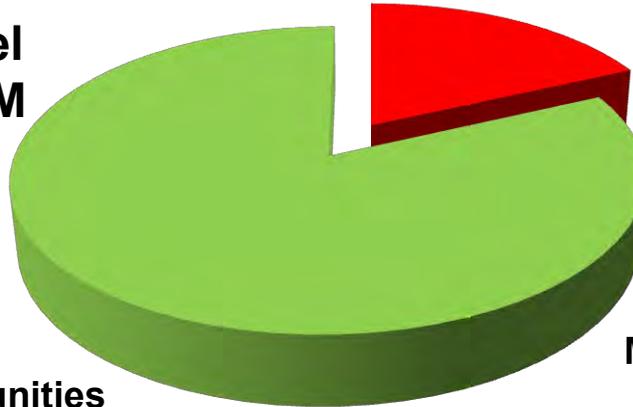


Planning Roll Up for Medical and Materiel Programs FY14-FY19



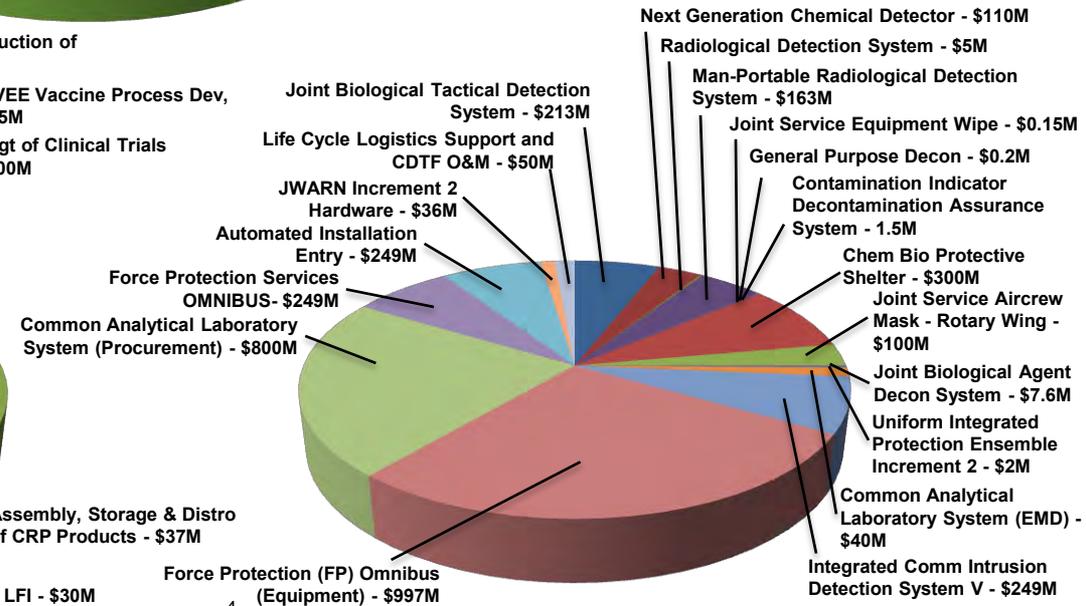
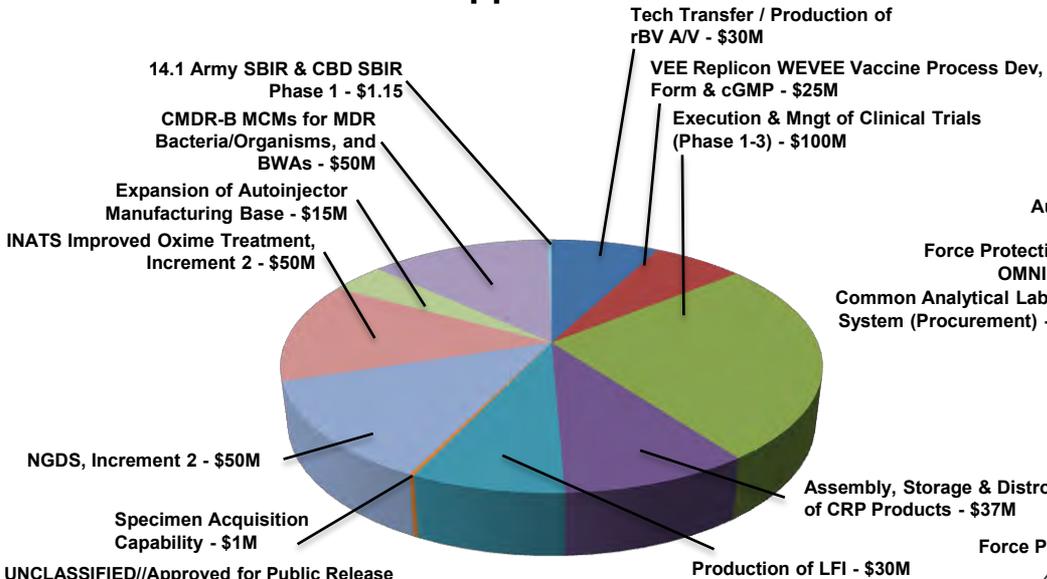
Materiel
\$3,572M

Medical
\$389M



Medical Opportunities

Materiel Opportunities





Joint Program Executive Office for Chemical and Biological Defense



***The BEST Technology and Equipment
At the RIGHT PLACE
At the RIGHT TIME
At the RIGHT COST***



Carmen Spencer
Joint Program Executive Officer for
Chemical and Biological Defense

410-436-4141

carmen.j.spencer.civ@mail.mil

www.jpeocbd.osd.mil

ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY

Defense Threat Reduction Agency



***Colonel Ronald Hann
Director***

***Joint Science and Technology Office
for Chemical and Biological Defense
5 December 2013***

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



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Project Manager for Medical Countermeasure Systems (JPM-MCS)



*Edward T. Clayson, Ph.D.
Deputy Joint Project Manager, JPM-MCS
5 December 2013*

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



JOINT PROJECT MANAGER MEDICAL COUNTERMEASURE SYSTEMS (JPM-MCS)

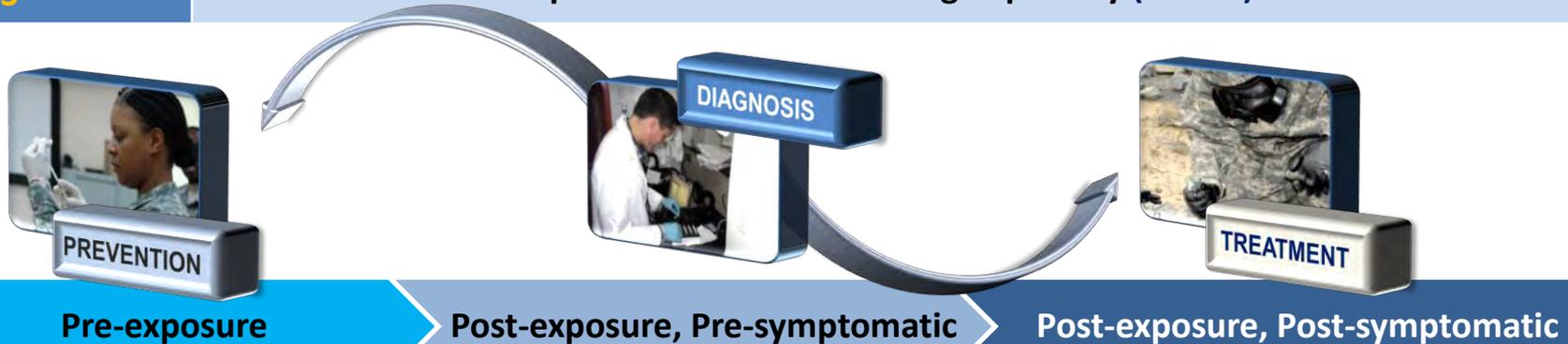
MISSION: *To provide U.S. military forces and the nation safe, effective, and innovative medical solutions to counter CBRN threats*

JOINT PRODUCT MANAGEMENT OFFICES

- Joint Vaccine Acquisition Program (JVAP)
- Chemical Defense Pharmaceuticals (CDP)
- BioDefense Therapeutics (BDTX)
- Diagnostics (DX)

PRODUCT SUPPORT OFFICES

- Critical Reagents Program (CRP)
- Advanced Development and Manufacturing Capability (ADMC)



← **JPM-MCS CONTINUUM OF MEDICAL COUNTERMEASURES** →



Opportunities - JVAP



JVAP Joint Vaccine Acquisition Program

*Develops, produces, and stockpiles
FDA-licensed biological defense
vaccines*

For more information, contact:
[LTC David Hammer](#)
Joint Product Manager, JVAP

[Ms. Nicole Kilgore](#)
Deputy Joint Product Manager, JVAP

TITLE: Technology Transfer and the Production of the Recombinant Botulinum Vaccine A/B (rBV A/B)

**CONTRACT TYPE: FFP
ESTIMATED VALUE: ≤\$30M**

KEY MILESTONES:

- Issue RFP: 3QFY14
- Forecast Award: 1QFY15

**CONTRACTING CONTACT: Jessica Ely
SOLICITATION #: TBD**

TITLE: VEE Replicon Western, Eastern and Venezuelan Equine Encephalitis Vaccine Process Development, Formulation and cGMP Effort

**CONTRACT TYPE: CFF/FFP
ESTIMATED VALUE: ≤\$25M**

KEY MILESTONES:

- Issue RFP: 1QFY15
- Forecast Award: 3QFY15

**CONTRACTING CONTACT: TBD
SOLICITATION #: TBD**

TITLE: Execution and Management of Clinical Trials (Phase 1-3)

**CONTRACT TYPE: ID/IQ
ESTIMATED VALUE: ≤\$100M**

- Issue RFP: 2QFY15
- Forecast Award: 1QFY16

**CONTRACTING CONTACT: TBD
SOLICITATION #: TBD**

KEY MILESTONES:



Opportunities - CRP



CRP Critical Reagents Program

*Serves as the principal resource of high quality, validated, and standardized **biological detection assays and reagents***

For more information, contact:

[Dr. Michael Smith](#)

Product Support Director, CRP

[Mr. Bruce Goodwin](#)

Deputy Product Support Director, CRP

TITLE: **Assembly, Storage and Distribution of CRP Products**

CONTRACT TYPE: FFP
ESTIMATED VALUE: ≤\$37M

KEY MILESTONES:

- Issue RFP: 1QFY14
- Forecast Award: 2QFY14

CONTRACTING CONTACT: Leo Fratis
SOLICITATION #: W911QY-13-R-0088

TITLE: **Production of Lateral Flow Immunoassays (LFI)**

CONTRACT TYPE: FFP
ESTIMATED VALUE: ≤\$30M

KEY MILESTONES:

- Issue RFP: 1QFY15
- Forecast Award: 3QFY15

CONTRACTING CONTACT: Leo Fratis
SOLICITATION #: TBD

TITLE: **Specimen Acquisition Capability**

CONTRACT TYPE: FFP
ESTIMATED VALUE: ≤\$1M

KEY MILESTONES:

- Issue RFP: 3QFY14
- Forecast Award: 1QFY15

CONTRACTING CONTACT: TBD
SOLICITATION #: TBD



Opportunities - DX



DX Diagnostics

*Develops, acquires and fields
FDA-cleared **diagnostic medical
devices** intended for use in the
early diagnosis, prevention, and
treatment of the effects of
exposure to CBRN agents*

**TITLE: Next Generation
Diagnostics System (NGDS),
Increment 2**

**CONTRACT TYPE: TBD; Multiple
Award FAR part 15 including CPIF
and FFP CLINS**

ESTIMATED VALUE: ≤\$50M

**KEY MILESTONES: MS A 4QFY14,
MS B 4QFY16**

- Issue RFP: 4QFY14
- Forecast Award: 2QFY15

**CONTRACTING CONTACT: TBD
SOLICITATION #: TBD**

For more information, contact:

[Ms. Jennifer Dabisch](#)

Joint Product Director, DX (Acting)



Opportunities - CDP



CDP
Chemical
Defense
Pharmaceuticals

*Delivers affordable and robust,
FDA-approved, lifesaving **medical
countermeasure drug capabilities
against emerging CBRN threats***

For more information, contact:

[LTC Marla Ferguson](#)

Joint Product Manager, CDP

[Dr. David Smith](#)

Deputy Joint Product Manager, CDP

**TITLE: Improved Nerve Agent
Treatment System (INATS)
Improved Oxime Treatment,
Increment 2**

**CONTRACT TYPE: TBD; Multiple Award
FAR part 15 including CPFF, CPIF, and
FFP CLINS**

ESTIMATED VALUE: ≤\$50M

KEY MILESTONES:

- Issue RFP: FY15
- Forecast Award: FY16

CONTRACTING CONTACT: TBD

SOLICITATION #: TBD

**TITLE: Expansion of Autoinjector
Manufacturing Base**

**CONTRACT TYPE: TBD; Multiple Award
FAR part 15 including CPFF, CPIF, and
FFP CLINS**

ESTIMATED VALUE: ≤\$15M

KEY MILESTONES:

- Issue RFP: FY14
- Forecast Award: FY15-16

CONTRACTING CONTACT: TBD

SOLICITATION #: TBD



Opportunities - BDTX



BDTX BioDefense Therapeutics

Develops FDA-approved, effective, innovative, and affordable therapeutic solutions to counter traditional, emerging and engineered biological threats

TITLE: Countermeasures for Multi-Drug Resistance-Bacterial (CMDR-B), broad-spectrum medical countermeasures for protection against multi-drug resistant biowarfare agents and genetically modified MDR organisms

**CONTRACT TYPE: TBD
ESTIMATED VALUE: ≤\$50M**

KEY MILESTONES: MS A 1QFY15, MS B 2QFY17

- Issue RFP: 1QFY15
- Forecast Award: 3QFY15

**CONTRACTING CONTACT: TBD
SOLICITATION #: TBD**

For more information, contact:

[LTC Eric Midboe](#)

Joint Product Manager, BDTX

[Mr. David Klaasse](#)

Deputy Joint Product Manager, BDTX (Acting)



Opportunities - SBIR



SBIR Small Business Innovation Research

Elicits innovative solutions from the small business community that address chemical and biological defense technology gaps confronting DoD

For more information, contact:

[CPT Erin Milner](#)

SBIR Program Coordinator

[Dr. Anthony Macaluso](#)

Chief Technical Officer, JPM-MCS

TITLE: **14.1 Army SBIR and CBD SBIR Phase I Solicitation**

CONTRACT TYPE: FFP

ESTIMATED VALUE: Phase I: ≤\$150K,
Phase II : ≤\$1M, Phase III: no fund limit

KEY MILESTONES:

- Issue RFP:
 - 20 NOV 13 (pre-release)
 - 20 DEC 13-22 JAN 14 RFP
- Forecast Award: 4QFY14

CONTRACTING CONTACT: TBD
SOLICITATION #: DoD SBIR 2014.1



JPM-MCS Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. Tech Transfer and the Production of rBV A/V	FFP	≤\$30M	3QFY14	Contracting POC: Jessica Ely
2. VEE Replicon WEVEE Vaccine Process Development, Formulation & cGMP	CFF/FFP	≤\$25M	1QFY15	Contracting POC: TBD; JVAP JPdM: LTC David Hammer or DJPdM: Nicole Kilgore
3. Execution & Mngt of Clinical Trials (Phase 1-3)	ID/IQ	≤\$100M	2QFY15	Contracting POC: TBD; JVAP JPdM: LTC David Hammer or DJPdM: Nicole Kilgore



JPM-MCS Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
4. Assembly, Storage & Distro of CRP Products	FFP	≤\$37M	1QFY14	Contracting POC: Leo Fratis
5. Production of LFI	FFP	≤\$30M	1QFY15	Leo Fratis
6. Specimen Acquisition Capability	FFP	≤\$1M	3QFY14	Contracting POC: TBD; CRP PdSD: Dr. Michael Smith or DPdSM: Bruce Goodwin



JPM-MCS Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
7. NGDS, Increment 2	TBD	≤\$50M	4QFY14	Contracting POC: TBD; DX JPdD (Acting): Jennifer Dabisch
8. INATS Improved Oxime Treatment, Increment 2	TBD	≤\$50M	FY15	Contracting POC: TBD; CDP JPdM: LTC Marla Ferguson or DJPdM: Dr. David Smith
9. Expansion of Autoinjector Manufacturing Base	TBD	≤\$15M	FY14	Contracting POC: TBD; CDP JPdM: LTC Marla Ferguson or DJPdM: Dr. David Smith



JPM-MCS Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
10. CMDR-B MCMs for MDR Bacteria, BWAs and genetically modified MDR organisms	TBD	≤\$50M	1QFY15	Contracting POC: TBD; BDTX JPdM: LTC Eric Midboe or DJPdM (Acting): Dave Klaasse
11. 14.1 Army SBIR & CBD SBIR Phase I	FFP	Ph I: ≤\$150K Ph II: ≤\$1M Ph III: no limit	1QFY14	SBIR Pgm Coordinator: CPT Erin Milner ; CTO: Dr. Tony Macaluso



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Defense Threat Reduction Agency Chemical and Biological Technologies Department, J9 Research and Development Directorate

Dr. Erin Reichert, Acting Division Chief, Translational Medical Division
Dr. Eric Moore, Division Chief, Basic and Supporting Science Division
*Mr. Todd Ritter, Senior Technology Advisor, Diagnostics and Disease
Surveillance Division*

5 December 2013



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



DTRA J9 Translational Medical Division

***Erin Reichert, Ph.D.
Division Chief, Translational Medical Division;
Bio Therapeutics Branch &
Vaccine Branch
December 5, 2013***

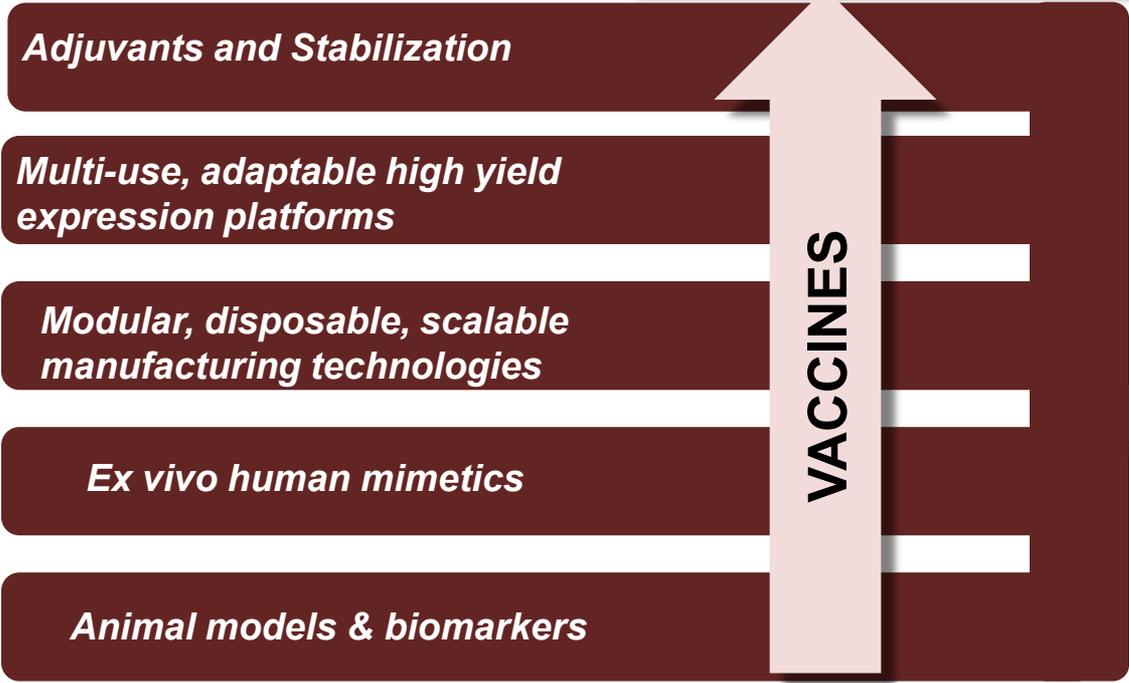


Vaccines – Focus Areas



Advanced Development Partners
JPEO - Medical Countermeasures Systems
BARDA

Enabling Science



Product Pipeline



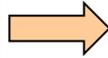
Vaccines – Focus Areas



Focus Agents

Viruses

- Hemorrhagic Fever Viruses – Ebola & Marburg
- Encephalitic Alphaviruses – EEEV, VEEV, WEEV

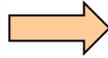


Approach

- Virus Like Particles
- Viral Replicon Particle
- Nanoparticle expression platform

Toxins

- Ricin



- Protein Subunit
- Nanoparticle expression platform

Bacteria

- Bacillus anthracis
- Francisella tularensis
- Burkholderia mallei
- Burkholderia pseudomallei



- Protein Subunit
- Nanoparticle expression platform
- Bacterial expression platform
- Live Attenuated

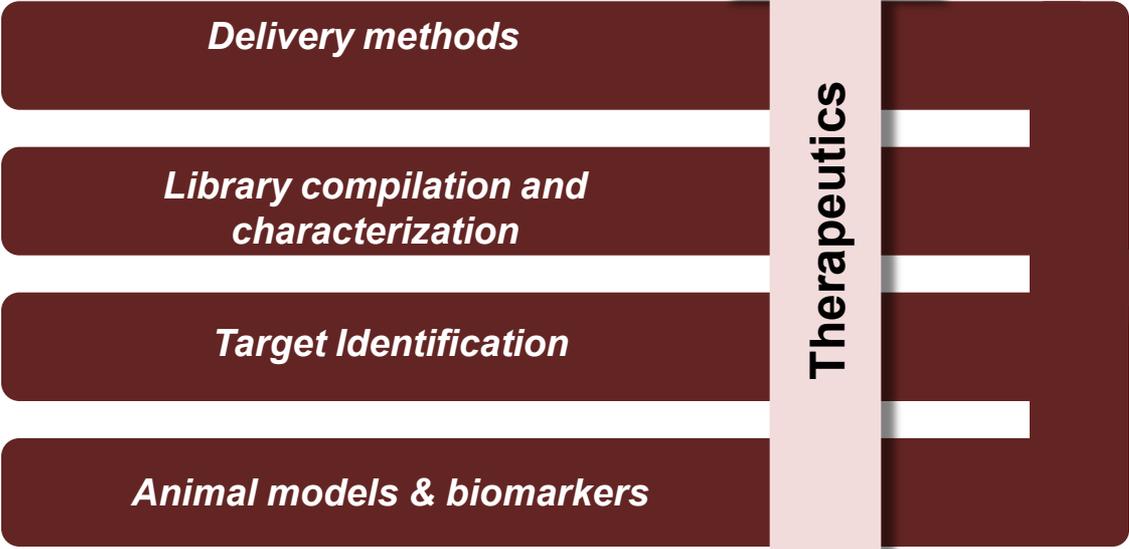


Therapeutics - Enabling Science



Advanced Development Partners
JPEO - Medical Countermeasures Systems
BARDA

Enabling Science



Product Pipeline



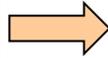
Therapeutics – Focus Areas



Focus Agents

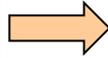
Viruses

- Hemorrhagic Fever Viruses Ebola & Marburg
- Encephalitic Alphaviruses VEEV, EEEV, WEEV



Toxins

- Botulinum Toxin



Bacteria

- Burkholderia spp.
- Bacillus anthracis
- Francisella tularensis
- Yersinia pestis



Approach

- Novel therapeutic approaches
 - Host-directed & agent-based
- Novel mAb treatments
- Repurposing of FDA-approved drugs

- Small molecule therapeutics
- Repurposing of FDA-approved drugs

- Novel therapeutic approaches
- Antibiotic potentiation
- Circumvent/address resistance
- FDA-approved drug repurposing



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



DTRA J9 Advanced and Emerging Threats Division

*Eric L. Moore, Ph.D.
Division Chief
5 December 2013*



Program Overview



Chemical Pretreatments & Prophylaxis:

Need- Effective protection against all consequences of 2-5xLD₅₀ nerve agent intoxication

Technical Challenges:

- Molecular weight differential between prophylaxis and threat agent
- Onset and duration of protection
- Broad spectrum efficacy
- Therapeutic Index/ Safety Margin / No performance decrement

Approach:

- Catalytic and small molecule scavengers
- Post-exposure pre-symptomatic therapy



Chemical Therapeutics:

Need- Acute therapy to alleviate and/or reverse the acute and long term effects of CWA

Technical Challenges:

- Blood brain barrier penetration
- Broad spectrum efficacy
- Lack of clear understanding of downstream mechanisms of nerve agent neuropathology

Approach:

- Centrally acting reactivator or anti-cholinergic
- Drug repurposing





Opportunities



**TITLE: Fundamental Research to Counter Weapons of Mass
Destruction
(C-WMD)**

**CONTRACT TYPE: BAA
ESTIMATED VALUE: TBD**

KEY MILESTONES:

- Issue RFP: rolling
- Forecast Award: rolling

CONTRACTING CONTACT: HDTRA1-09-14-FRCWMD@dtra.mil

SOLICITATION #: HDTRA1-09-14-FRCWMD-BAA



Opportunities



TITLE: R&D Innovation and Systems Engineering Office Science and Technology New Initiatives

CONTRACT TYPE: BAA

ESTIMATED VALUE: TBD

KEY MILESTONES:

- **Issue RFP: rolling**
- **Forecast Award: rolling**

CONTRACTING CONTACT: HDTRA1-11-16-RDIS-BAA@dtra.mil

SOLICITATION #: HDTRA1-11-16-RDIS-BAA



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



DTRA J9 Diagnostics and Disease Surveillance Division Assay Development and Biomarker Branch

*Mr. Todd Ritter
Senior Technology Advisor, Diagnostics and
Disease Surveillance Division*

5 December 2013



Assay Development and Biomarker Branch: S&T Needs and Technical Challenges



- **Rapid and Robust Reagent Development**
 - **Develop new and enhanced reagents and prototype assays**
 - **Ex: new pathogen signatures with highly variable genotypes, geographically and vector-constrained phylogenetic strain variants, improved thermal stabilization/shelf life, elimination of cold-chain logistics, enhanced affinity for target**
 - **Discover host biomarkers of exposure to bio- and emerging threat agents and develop assays to support early diagnosis**
 - **Evaluating use of recombinant antibody fragments and novel ligand binding constructs (e.g. single domain antibodies, single chain Fragment variants) in lateral flow immunoassays**
- **Next Generation Sequencing**
 - **Enhanced pathogen characterization (phenotype and genotype)**
 - **Synthetic biology for viral characterization**
 - **Signature discovery for assay design**
 - **Robustly characterize challenge strains from MCM development**
 - **Comparator database for novel, emerging, or engineered biological threats**



S&T Points of Contact



- **Branch Chief, Assays and Biomarkers**
 - Lt. Col. Richard Schoske, Ph.D.
 - (703) 767-3363
 - richard.schoske@dtra.mil

- **Science and Technology Advisor**
 - Todd Ritter, MS
 - (703) 767-9172
 - todd.ritter@dtra.mil

- **Science and Technology Manager**
 - Charles Hong, MS
 - (410) 417-3302
 - charles.hong@dtra.mil





Upcoming Business Opportunities-S&T



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Chemical & Biological Technologies Department FY14-16 Broad Agency Announcement (BAA) (HDTRA1-14-CHEM-BIO-BAA) Extramural (non-US Government) only, leading to contract and grant awards Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2015
Small Business Innovation Research (SBIR) program Opportunity for Small Business engagement in S&T program Leads to contract http://www.dodsbir.net/solicitation/default.htm	Nov 2014 (DoD FY14.1 SBIR Solicitation) New Authorization of SBIR Program!
DTRA R&D Innovation Office – Science and Technology New Initiatives BAA (HDTRA1-11-16-RDIS-BAA)	Open Continuously



Upcoming Business Opportunities-S&T



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Fundamental Research to Counter Weapons of Mass Destruction BAA (HDTRA1-09-14-FRCWMD-BAA)	Open Continuously
DTRA Basic Research for Combating Weapons of Mass Destruction (C-WMD) (HDTRA1-11-16-BRCWMD-BAA) GRANTS ONLY http://www.grants.gov	Annual call planned for December 2013
DTRA Chemical & Biological Technologies Department FY14-17 Non-Traditional Agents New Initiatives Broad Agency Announcement (BAA) (HDTRA1-14-17-NTA-BAA) Extramural (non-US Government) only, leading to contract Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2016



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



JPM Nuclear Biological Chemical Contamination Avoidance



***JSTO Presenter: Todd Ritter
Senior Technical Advisor***

***JPEO Presenter: Nancy Kammerer
Title: Deputy Project Manager
Date: 5 December 2013***

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



Detection: S&T Needs & Technical Challenges



- **Automated Sample to Sequence Capability**
 - Environmental and Clinical matrices
 - Portable, battery operated (less than 1 cu ft)
 - Response time of 60 min or less
- **New concepts supporting CB Early Warning**
 - Pre-symptomatic detection of all threats
 - Emphasis on low cost of operation
 - Leverage of commercial dual-use technologies
- **Next-Generation Chemical Detection**
 - Hand-held to wearable
 - All threats in all states of matter
 - Focus to deliver against NGCD test schedule
 - Reduction of false alarm rates; Improved selectivity/sensitivity



S&T Points of Contact



- **Branch Chief; Diagnostic and Detection Devices**
 - Christian Whitchurch, Ph.D.
 - (703) 767-3313
 - christian.whitchurch@dtra.mil
- **Chemical Detection S&T Manager**
 - Anthony Esposito, Ph.D.
 - (703) 767-6046
 - anthony.esposito@dtra.mil
- **Senior Scientific Advisor, Sample-to-Sequence Capability**
 - Christopher Detter, Ph.D.
 - (703) 767-3365
 - chris.detter@dtra.mil
- **Senior Technical Advisor**
 - Todd Ritter
 - (703) 767-8172
 - todd.ritter@dtra.mil



Program Overview



- **The JBTDS is envisioned to be a lightweight, low cost, man-portable and battery operable capability set deployable in a tactical environment. The primary system functions are to detect biological warfare agents (BWA), collect aerosol samples, identify the BWA in the sample, and alert personnel of the presence of a hazard.**



Opportunities



TITLE: Joint Biological Tactical Detection System (JBTDS)

CONTRACT TYPE: CPIF/FFP/CR

PERIOD OF PERFORMANCE:

- 3 years Engineering Manufacturing Development (EMD)
- 5 years (option) Initial Production / Full rate Production

TOTAL ESTIMATED PROGRAM FUNDING IN PB14: \$ 213M (FY14-19) (Note: Includes 3 years of EMD and 3 years of Production)

KEY MILESTONES:

- Issue RFP: December 2013
- Forecast Award: June 2014

CONTRACTING CONTACT: See FedBizOpps www.fbo.gov Key term: W911QY-13-R-0036 (i.e.,PRE-SOLICITATION NOTICE #)



Item or Service Description



- **Contract for the Engineering Manufacturing Development and Production of a tactical BWA sensor system**
 - **Provides tactical detection, collection, and identification and communication capability**
 - **Satisfies multiple service force protection needs**
 - **Adapts to multiple configurations and mission scenarios**
 - **Delivers engineering data and logistics products**
 - **Supports Government testing, training, and fielding**



Program Overview



The Next Generation Chemical Detector (NGCD) will provide capabilities to detect and identify Non-Traditional Agents (NTAs), Chemical Warfare Agents (CWAs), Toxic Industrial Chemicals (TICs), and other hazards in the air and on the surfaces in all states of matter (aerosol, liquid, solid, and vapor).

The NGCD is supported by four (4) Capability Development Documents (CDDs). Each CDD defines the unique capabilities required of each NGCD material solution



Opportunities



TITLE: Next Generation Chemical Detector (NGCD)

CONTRACT TYPE: CPIF/FFP (Up to four separate contracts for each NGCD CDD material solution)

PERIOD OF PERFORMANCE:

- 2 years Engineering Manufacturing Development (EMD)
- 6 years (option) Initial Production / Full rate Production

TOTAL ESTIMATED PROGRAM FUNDING IN PB14: \$ 110M (FY17-19) (Note: 4 distinct efforts, each with Research & Development funding for 3 years of EMD)

KEY MILESTONES:

- Issue RFP: October 2016
- Forecast Award: March 2017



JPM-NBC CA Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. Joint Biological Tactical Detection System (JBTDS)	CPIF/FFP/CR	\$213M	1QFY14	www.fbo.gov Key term: W911QY-13-R-0036
2. Next Generation Chemical Detector (NGCD)	CPIF/FFP	\$110M	4QFY16	



Item or Service Description



- **Up to four separate contracts for the Engineering & Manufacturing Development and Production of a tactical Chemical Detection/Identification system**
 - **Provides tactical detection, collection, and/or identification capability (depending on the specific material solution contracted)**
 - **Satisfies multiple service force protection needs**
 - **Adapts to multiple configurations and mission scenarios**
 - **Ability to communicate via existing network services**
 - **Delivers engineering data and logistics products**
 - **Supports Government testing, training, and fielding**



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Project Manager, Radiological and Nuclear Defense (JPM RND) (Provisional)

Alan R. Burket



***JSTO Presenter: Steven P. Webber
Title: Chief, Nuclear Detection Division,
Defense Threat Reduction Agency
(DTRA/J9NTD)***

***JPEO Presenter: Alan R. Burket
Title: Joint Project Manager***

5 December 2013

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



JPM-RND Mission and Vision



Mission

The Joint Project Manager for Radiological and Nuclear Defense is responsible for research, development, acquisition, fielding and life-cycle support of joint radiological and nuclear defense systems supporting the National Military Strategy

Vision

Collaboratively develop and deliver Radiological & Nuclear Defense capabilities to support our warfighters, our nation and our allies



Radiological Detection System (RDS)



Program Description

- **Mission Description:** Provide a rugged RADIAC Meter to meet low level and networked CBRN Field Analytics ICD requirements to improve commanders' situational awareness. Develop a DoD standard system to consolidate legacy programs (AN/VDR-2, PDR-77, ADM-300, MFR Suite) to eliminate parts obsolescence; increase capability, reduce life-cycle costs and address OPERATION TOMODACHI lessons learned for common, interoperable equipment with adequate sensitivity and common units of measure.
- **Potential Users:** Army, Air Force, Navy, Marines, Canada, Great Britain
- **Program Status:** MS A approved 25 Nov 2013
- **Requirements Documents:**
 - Chemical, Biological, Radiological, and Nuclear (CBRN) Field Analytics ICD (120110)
 - Countering Nuclear Threats (CNT) ICD (250411)
 - CBRN Sensors for Application on Unmanned Platforms ICD (031006)

Schedule

- **MDD:** 29 March 2012
- **MS-A:** 25 November 2013
- **MS-C:** 1QFY17
- **FRP:** 1QFY19

MS-A to MS-C strategy for development, testing, & fielding modified COTs solution for DoD

Navy - MFR Suite



Army & Marines - AN/PDR 77



Air Force – ADM 300



*** Estimate 67,100 systems assuming one for one replacement of legacy systems (includes VDR-2s); users determining actual quantity**



Man-Portable Radiological Detection System (MRDS)



• Mission Description

- The MRDS is composed of three elements (Detection, Communications, and Situational Awareness) and is intended to provide enhanced detection capabilities for Sensitive Site Assessment (SSA) and Sensitive Site Exploitation (SSE). Focused on Interdiction & Elimination Operations tied to the Countering Nuclear Threats (CNT) mission space.

• Potential Users: Army, Navy, Marines, Coast Guard, SOCOM, DTRA

• Program Status

- Due to sequestration, MRDS was postponed to FY18
- Looking for avenues to begin earlier

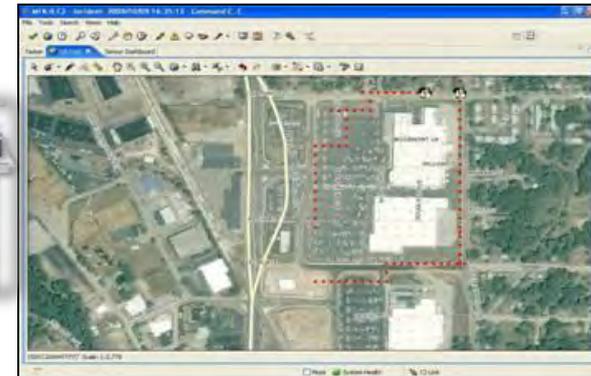
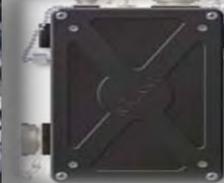
• Requirements Documents:

- Countering Nuclear Threats (CNT) ICD (250411)
- CBRN Sensors for Application on Unmanned Platforms ICD (031006)

Program Description

Schedule

- MDD: 29 March 2012
 - MS-B: FY18
 - MS-C: FY20
 - FRP: FY22
- MS-B to MS-C Acquisition Strategy**





Opportunities



TITLE: Radiological Detection System (RDS)

CONTRACT TYPE: TBD/Full-Open Competition
ESTIMATED VALUE: \$4-5M not including Service procurement quantities; with Service procurement, potential for up to \$100M range

KEY MILESTONES:

- Issue RFP: Projected Release – 3QFY14
- Forecast Award: Projected date – Late 3QFY14 to Early 4QFY14

CONTRACTING CONTACT: Edgewood Contracting Office

SOLICITATION #: TBD

TITLE: Man-Portable Radiological Detection System (MRDS)

CONTRACT TYPE: TBD/Full-Open Competition
ESTIMATED VALUE: \$163 M

KEY MILESTONES:

- Issue RFP: FY17
- Forecast Award: FY17

CONTRACTING CONTACT: Edgewood Contracting Office

SOLICITATION #: TBD



JPM-Radiological and Nuclear Defense Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. Radiological Detection System (RDS)	TBD/Full-Open Competition	\$4-5M up to \$100M	3QFY14	Edgewood Contracting Office
2. Man-Portable Radiological Detection System (MRDS)	TBD/Full-Open Competition	\$163 M	FY17	Edgewood Contracting Office



JPM-RND Points of Contact



Joint Project Manger, Radiological and Nuclear Defense (Provisional)

- Mr. Alan Burket
- 443-655-8608
- Alan.r.burket.civ@mail.mil

Countering Nuclear Threats and RN Defense

Deputy Joint Project Manager, Radiological and Nuclear Defense (Provisional)

- Mr. Valentin Novikov
- 410-417-2315
- Valentin.novikov.civ@mail.mil

Global CWMD Awareness System

Deputy Program Manager

- Mr. Lowry Brooks
- 703-735-5701
- Lowry.j.brooks.civ@mail.mil



DTRA - Nuclear Detection Division



NTD Mission

Identify technology solutions to locate and identify radiological and nuclear threats.

Radiation Detection Mission

Select technologies to mature into next-generation radiation detection capabilities in support of the warfighter.

Nuclear Threats Mission

Identify and investigate novel signatures, technologies, systems, and platforms for the detection of nuclear threats



Radiation Detection (NTDR)



Sub-Program Purpose:

Conduct research and development to create and test technological solutions to detect, locate, track, identify, and characterize nuclear threats in order to disrupt, contain, or, when directed, eliminate the threats across the full spectrum operations. Deliver these capabilities to support CCMDs in their efforts to respond to WMD threats. Support C4ISR interoperability initiatives by providing innovative, integrated detector solutions for more effective operational search capability.

Primary Technology Areas:

- Search and Localization
- Imaging and Characterization
- He³ Alternative Technologies
- Identification and Tagging
- Bremsstrahlung Interrogation
- Testing, Modeling, and Analysis



NTDR Ongoing Efforts



- **Search and Localization**
 - MPDS PDR and CDR
 - MRD and MPDS Prototype delivery
- **Imaging and Characterization**
 - GRIL CDR
 - Final Polaris Prototype
 - Final RadCam Prototype
- **Helium-3 Alternative Technologies**
 - Increased efficiency corrugated BCS 1” and 2”-dia
 - 2”-dia high efficiency MSND tubes
 - 2”-dia consistent quality CLYC
 - Tri-mode CLYC and Borated Plastics



NTDR Ongoing Efforts



- **Identification and Tagging**
 - Bench test results for RSTTL
 - Repack CDR; Prototype delivery
- **Active (Bremsstrahlung) Interrogation**
 - Understanding efficacy of active interrogation and implications for deployment (capability, radiation dose and CONOPS).
 - Execute 15 week experimental campaign at NNS
- **Testing, Modeling and Analysis**
 - Complete Monster Truck Rally
 - Imaging Detector Analysis
 - Algorithm analysis



NTDR - Ongoing Efforts



- **Atom Gravity Gradiometer**
- **Advanced In-Situ Multifunction Sensing (Marbles)**
- **Building Interior Surveillance System (BISS)**
- **Imagery Exploitation for Signature Discovery [IMINT]**
- **Mobile Field Kit (MFK-CBRN)**
- **Nuclear Loss of Custody Proxy Signatures Project**
- **Proxy Signature Development**
- **SensorWeb Data Fusion**
- **Terahertz Spectrometric Detection of SNM**



Loose Nukes COI



- **Mission: Facilitate scientific and technical research to improve the USG's capabilities to identify, track, and locate loose nuclear weapons or material**
- **Created dialogue and identified areas for further exploration**
- **Participation from national labs, performers, and Interagency**
- **FY14 goals include:**
 - **Refine and prioritize future goals and objectives**
 - **Formalize COI at appropriate levels**
 - **Expand IC involvement**
 - **Obtain appropriate senior leadership commitment to meet goals**



NTD Opportunities



NTD primarily uses 2 types of Broad Agency Announcements (BAA) to receive proposals:

- BAA HDTRA1-14-NTD-BAA
 - Annual call for proposals that meet specific requirements of customers, topics change each year depending upon needs and funding
 - Posted to Federal Business Opportunities (FedBizOpps)
 - FY14 will be released after 1 JAN 14
 - Open to private industry, national laboratories, colleges/universities
 - All proposals will be reviewed in accordance with the posted instructions
- DTRA open BAAs
 - Posted at: <http://www.dtra.mil/Research.aspx>
 - Proposals considered upon receipt, continuously updated but no deadlines for submission
 - Numerous opportunities for DTRA to evaluate research
 - Proposals appropriate for NTD will be sent through DTRA for evaluation
 - Specific instructions listed for each BAA



NTD Point of Contact



Defense Threat Reduction Agency (DTRA) Nuclear Detection Division (NDD)

- Steven Webber
- Lt. Col, USAF
- 703-767-3087
- Steven.webber@us.af.mil



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Project Manager for Protection (JPM-P)



Mr. William Hartzell
Joint Project Manager for Protection
5 December 2013

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



JPM-P Overview



JPM-P Mission:

Develop, field, and sustain Chemical, Biological, Radiological, and Nuclear (CBRN) protection and hazard mitigation capabilities for the nation, and facilitate integration of CBRN survivability into non-CBRN programs.

Major Defense Acquisition Program (MDAP) Trail Boss Mission:

Provide subject matter expertise and serve as the conduit for the JPEO and MDAPs to assist in meeting CBRN survivability requirements.

Vision:

Promote a creative and innovative workforce focused on acquiring capabilities to defend the nation against CBRN threats.



JPM-Protection Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. Joint Service Equipment Wipe	FFP/IDIQ	\$100-150K	FY 14	ACC-Natick
2. General Purpose Decon	SAP/FAR 13; FFP/IDIQ	\$75-100K / \$175-200K	FY 14/15	ACC - Natick
3. Contamination Indicator Decontamination Assurance System	TBD	\$1-1.5M	FY 15	ACC - Natick
4. Chem-Bio Protective Shelter-M8E1	FFP	\$250-300M	FY 15	ACC - Natick
5. Joint Service Aircrew Mask – Rotary Wing	FFP/IDIQ	\$75-100M	FY 15/16	ACC - APG
6. Joint Biological Agent Decon System	TBD	\$5-7.6M	FY 16	ACC - Natick
7. Uniform Integrated Protection Ensemble Increment 2	TBD	\$1-2M	FY 16	ACC - Natick



Opportunities



TITLE: Joint Service Equipment Wipe

CONTRACT TYPE: FFP/IDIQ

ESTIMATED VALUE: \$100 - 150K W/Options

KEY MILESTONES:

- **Issue RFP: 2QFY14**
- **Forecast Award: 3QFY14**

CONTRACTING CONTACT: ACC-Natick

SOLICITATION #: TBD



Item or Service Description



- **One Contract for Joint Service Equipment Wipe (JSEW)**
 - Base award for Technology Development phase Developmental Test items
 - Options for production quantities
- **Mission Description: JSEW will provide immediate/operational decontamination capabilities for sensitive and non-sensitive equipment in hostile and non-hostile environments that have been exposed to traditional and non-traditional chemical contamination.**



Opportunities



**TITLE: General Purpose
Decontaminants**

**CONTRACT TYPE: SAP/FAR 13
ESTIMATED VALUE: \$75 - 100K**

KEY MILESTONES:

- Issue RFP: 2QFY14
- Forecast Award: 2QFY14

**CONTRACTING CONTACT: ACC -
Natick**

SOLICITATION #: TBD

**CONTRACT TYPE: FFP/IDIQ
ESTIMATED VALUE: \$175 - 200K
W/Options**

KEY MILESTONES:

- Issue RFP: 2QFY15
- Forecast Award: 3QFY15

**CONTRACTING CONTACT: ACC -
Natick**

SOLICITATION #: TBD



Item or Service Description



- **Two Contracts for General Purpose Decon (GPD)**
 - First award is for Developmental Test items using Simplified Acquisition Procedures
 - Second award is for Low-Rate Initial Production test items with Options for production quantities
- **Mission Description: GPD will provide thorough decontamination capabilities for tactical vehicles, shipboard surfaces, crew-served weapons and individual weapons in hostile and non-hostile environments that have been exposed to traditional and non-traditional chemical and biological contamination.**



Opportunities



TITLE: Contamination Indicator Decontamination Assurance System

CONTRACT TYPE: TBD

ESTIMATED VALUE: \$1 - 1.5M W/Options

KEY MILESTONES:

- **Issue RFP: 3QFY14**
- **Forecast Award: 1QFY 15**

CONTRACTING CONTACT: ACC - Natick

SOLICITATION #: TBD



Item or Service Description



- **One Contract for the Contamination Indicator Decontamination Assurance System (CIDAS)**
 - **Base award for Engineering & Manufacturing Development**
 - **Options for Low Rate Initial Production and Full Rate Production**
- **Mission Description: CIDAS will provide a contamination indication/ decontamination assurance technology and applicators for visually indicating traditional nerve and blister chemical warfare agents and nontraditional agents on tactical vehicles, aircraft, shipboard surfaces, crew-served weapons, and individual/personnel weapons that may have been exposed to chemical contamination in hostile and non-hostile environments.**



Opportunities



TITLE: Chem-Bio Protective Shelter-M8E1

CONTRACT TYPE: FFP

ESTIMATED VALUE: \$250 - 300M

KEY MILESTONES:

- **Issue RFP: 4QFY14**
- **Forecast Award: 2QFY15**

CONTRACTING CONTACT: ACC - Natick

SOLICITATION #: TBD



Item or Service Description



- **One Contract for follow-on production of the Chem-Bio Protective Shelter-M8E1 (CBPS-M8E1)**
- **Mission Description: CBPS is a rapidly deployable, collectively protected, and environmentally controlled transportable medical shelter mounted on a Medium Tactical Vehicle (M1085). The system provides forward deployed medical teams the capability to sustain medical treatment in a Chemical, Biological, and Radiological (CBR) contaminated environment with personnel unencumbered by individual protective equipment.**



Opportunities



TITLE: Joint Service Aircrew Mask – Rotary Wing

CONTRACT TYPE: FFP/IDIQ

ESTIMATED VALUE: \$75 - 100M

KEY MILESTONES:

- **Issue RFP: 1QFY15**
- **Forecast Award: 3QFY15**

CONTRACTING CONTACT: ACC - APG

SOLICITATION #: TBD



Item or Service Description



- **One Contract for production of the Joint Service Aircrew Mask – Rotary Wing (JSAM – RW)**
- **Mission Description: JSAM RW provides head, eye, respiratory and Chemical/Biological (CB) protection for general purpose rotary wing aircrew. The JSAM RW Mask Protective Unit 5 (MPU-5(V)/P) is capable of being donned and doffed while in flight and is compatible with portable oxygen systems used in U.S. Army aircraft.**



Opportunities



TITLE: Joint Biological Agent Decon System

CONTRACT TYPE: TBD

ESTIMATED VALUE: \$5 - 7.6M

KEY MILESTONES:

- **Issue RFP: 3QFY15**
- **Forecast Award: 1QFY16**

CONTRACTING CONTACT: ACC - Natick

SOLICITATION #: TBD



Item or Service Description



- **Contract for Research Development Test and Evaluation of the Joint Biological Agent Decon System (JBADS)**
- **Mission Description: The JBADS will develop and field a capability set to include a shelter to encapsulate an airframe, a decontamination delivery system (e.g. hot-humid air-blower, etc.), environmental control and monitoring system(s), and other ancillary components required to ensure efficacious biological agent decontamination. The JBADS mission is to perform thorough biological decontamination of the interior and exterior of tactical and cargo aircraft.**



Opportunities



TITLE: Uniform Integrated Protection Ensemble Increment 2

CONTRACT TYPE: TBD

ESTIMATED VALUE: \$1 - 2M

KEY MILESTONES:

- **Issue RFP: 4QFY15**
- **Forecast Award: 2QFY16**

CONTRACTING CONTACT: ACC - Natick

SOLICITATION #: TBD



Item or Service Description



- **Contract for Research Development Test and Evaluation of the Uniform Integrated Protection Ensemble (UIPE) Increment 2**
- **Mission Description: The UIPE program aims to provide individual protective equipment that enables the Warfighter to operate in a contaminated Chemical and Biological (CB) environment with no or minimal degradation in performance. UIPE is supported by an approved Initial Capabilities Document (ICD). UIPE Increment 2 will build on and enhance capabilities attained in Increment 1. In addition, Increment 2 will seek to address the broader scope of ICD requirements to include the capability to protect Warfighters from operationally relevant traditional, non-traditional, and advanced CBRN/TIM threats likely to be encountered during joint force operations.**



Points of Contact



Joint Project Manager for Protection

- Mr. William D. Hartzell
- (703) 617-2444
- william.hartzell@usmc.mil

ACC-Natick

- Mr. Tom Bouchard
- (508) 233-6185
- thomas.j.bouchard2.civ@mail.mil

Deputy Joint Project Manager for Protection

- Mr. Anthony Nicoletti
- (703) 617-2378
- anthony.nicoletti@navy.mil

ACC-APG

- Mr. Tom Dickson
- (410) 436-8621
- thomas.a.dickson4.civ@mail.mil

Assistant Joint Project Manager (External Ops)

- Mr. Victor Murphy
- (703) 617-2413
- victor.murphy@usmc.mil



S&T Objective



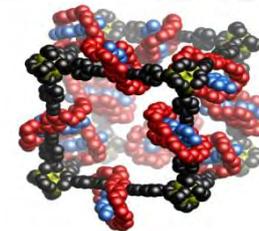
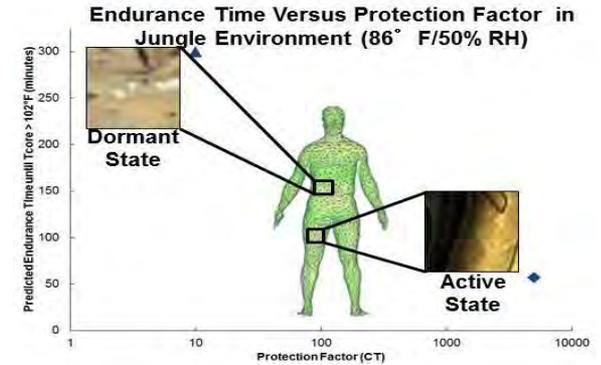
Develop science and technology that protects the warfighter from the full range of chemical and biological agents by supporting acquisition programs of record and providing the material developer with innovative and revolutionary alternatives that meet the user's needs



Novel Materials



- Air filtration and percutaneous protection applications
- Focus needs:
 - Crystalline nano-structured porous materials (e.g. Metal Organic Frameworks)
 - Nano-composite filtration fabrics
 - Self-detoxifying and sporicidal surfaces
 - Hydrolytic and oxidative catalysts that rapidly degrade agents
 - Nano-structured surface morphology
 - Dynamic multifunctional materials that sense and respond to agents
 - Membranes, laminates and barrier materials





Respirators



- Span range of hazard applications from Air Purifying Respirator (APR) to Closed-Circuit (CC) Self-Contained Breathing Apparatus (SCBA)
- Need active and passive technologies for:
 - Thermal management
 - Breathing air management
 - Anti-fog
 - Improved seals and suspension
 - O2 storage and CO2 removal



See DoD
SBIR
Solicitation
14.1 topic
CBD14-103

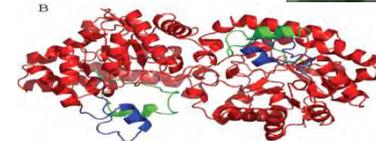




Hazard Mitigation



- **Agent resistive coatings and sacrificial barriers**
 - Increase agent resistance of CARC
 - Self-detoxifying
 - Strippable coatings
 - Decontaminating “lock-down” coatings
- **Equipment/facility decontamination**
 - Dial-a-decon concept to adjust for need
 - Sensitive equipment formulations/methods
 - Logistically feasible wide-area concepts
- **Personnel decontamination**
 - Mass-casualty decontamination
 - Contaminated human remains





Business Opportunities (1)



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
<p>DTRA Chemical & Biological Technologies Department FY14-16 Broad Agency Announcement (BAA) (HDTRA1-14-CHEM-BIO-BAA)</p> <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract and grant awards• Additional topics may be added in the future; continue to monitor	<p>New amendments can be posted until the end of calendar year 2015</p>
<p>Small Business Innovation Research (SBIR) program</p> <ul style="list-style-type: none">• Opportunity for Small Business engagement in S&T program• Leads to contract• http://www.dodsbir.net/solicitation/default.htm	<p>Nov 2013 (DoD FY14.1 SBIR Solicitation) New Authorization of SBIR Program!</p>
<p>DTRA R&D Innovation Office – Science and Technology New Initiatives BAA (HDTRA1-11-16-RDIS-BAA)</p>	<p>Open Continuously</p>



Business Opportunities (2)



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Fundamental Research to Counter Weapons of Mass Destruction BAA (HDTRA1-09-14-FRCWMD-BAA)	Open Continuously
DTRA Basic Research for Combating Weapons of Mass Destruction (C-WMD) (HDTRA1-11-16-BRCWMD-BAA) GRANTS ONLY http://www.grants.gov	Annual call planned for December 2013
DTRA Chemical & Biological Technologies Department FY14-17 Non-Traditional Agents New Initiatives Broad Agency Announcement (BAA) (HDTRA1-14-17-NTA-BAA) <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract• Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2016



S&T Points of Contact



- **Branch Chief, Protection and Hazard Mitigation**
Charles Bass, Jr., Ph.D., P.E.
(703) 767-3371
charles.bass@dtra.mil
- **Individual Protection S&T Manager**
Salvatore Clementi
(703) 767-6970
salvatore.clementi@dtra.mil
- **Deputy and Air Purification S&T Manager**
William Buechter
(703) 767-3104
william.buechter@dtra.mil
- **Hazard Mitigation S&T Managers**
Revell Phillips, Ph.D.
(703) 767-3377
revell.phillips@dtra.mil

Glenn Lawson, Ph.D.
(703) 767-3311
glenn.lawson@dtra.mil
- **Novel Materials S&T Manager**
Tracee Harris
(410) 417-3285
tracee.harris@dtra.mil



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Project Manager Guardian



DTRA Presenter: Ryan Madden

JPEO Presenter: COL James Choung

Title: Joint Project Manager

5 December 2013

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



VISION

- **Be the Joint Integrated Force Protection and Response Enabler for Warfighters and Homeland Defense against Threats and All Hazards**

MISSION

- **To develop, test, produce, field and sustain timely, affordable Joint Integrated Force Protection, CBRNE Analytics and Response Capabilities to protect our Armed Forces, the American People, and U.S. assets and interests at home and abroad from threats to national security in the face of a changing, complex and uncertain global environment**



Joint Product Managers and Product Director



JPdM Force Protection Systems

Provides force protection capabilities to installations and deployed forces:

- Integrated Tactical Force Protection
- Personnel and Cargo Explosive Inspection Systems
- Automated Installation Entry
- Installation Intrusion Detection
- Unattended Sensors for Early Warning
- Semiautonomous Robotic Surveillance



JPdM CBRNE Analytics & Response Systems

Provides DoD WMD Response and CBRNE Units laboratory, detection and protection capabilities:

- Advanced Analytics
- Communications
- COTS LCM across Portfolio
- Survey/Monitoring Integration for 20th CBRNE CMD
- IED emplacement and tunnel detection



PD Emergency Management Modernization Program

Provides Army Installations with:

- Decision support tools to enable timely and accurate decision making to include interface with Local & State Governments
- Enhanced 911
- Mass Warning Notification Systems



Guardian Portfolio



JPdM CBRNE A&RS



Unified Command Suite (UCS) & ADVON Comms Packages



Common Analytical Laboratory System (CALs)



Analytical Laboratory System (ALS)



CBRNe Analytical Remediation Activity Mobile Expeditionary Labs



Rapid Reaction Tunnel & IED Placement Detection



COTS Life Cycle Mgt Program

JPdM FPS



Integrated Commercial Intrusion Detection System (ICIDS)



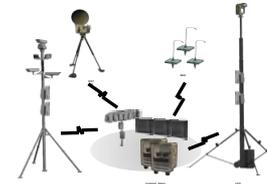
Automated Installation Entry (AIE)



Mobile Detection Assessment Response System (MDARS)



Non-Intrusive Inspection Systems (NIIS)



Force Protection Suite (FP Suite)



Rapid Deployment Integrated Surveillance System (RDISS)



Battlefield Anti-Intrusion System (BAIS)



Lighting Kit, Motion Detector (LKMD)



Combat Outpost Surveillance Force Protection System

PD EM2P



Enhanced 911



Emergency Management Common Operating Picture



Mass Notification

S&T Integration for Mission Applications



Fielding and Sustainment Partners
Joint Project Managers (JPM-G, JPM-NBCCA, JPM-IS)
Interagency/International (DHS S&T, EPA, Poland, etc.)

JSTO S&T
Projects

DETECTION AND EARLY WARNING:

Detectors, Diagnostics, Data Fusion, Threat Identification

ANALYSIS AND DECISION SUPPORT

Modeling and Simulation, Risk Analysis, Warning/Reporting

PROTECTION AND HAZARD MITIGATION

Personnel Protection, Protective Facilities, Decontamination

Integration and Demonstration

JSTO Advanced Technology Demonstration (ATD)



Active ATD Programs S&T Support to JPMG



S&T Elements (JSTO Projects)

ATD Programs (Integration and Demonstration)

JPM-G Mission Space (Operational Application)

**NTA, CWA, TIC Detection
Semi-autonomous
Platforms and Mapping
Information Reachback**



**Rapid Area Sensitive
Site Reconnaissance
(RASR)**



**CBRNE Analytics
Response
Capabilities**

**Biological Detection
Rapid Response Decision
Support
Sampling &
Decontamination**



**Transatlantic
Collaborative Biological
Resiliency Demonstration
(TaCBRD)**



**Response
Capabilities
Integrated Force
Protection**

**Infrared Imaging
Biological Detection
Warning and Reporting**



**Thermal Imaging Dual-
Use for Aerosol
Monitoring Alarms and
Security (TIDAMAS)**



**Integrated
Force
Protection**



Future ATD Program Near-term Development



JPM-G Mission Space

S&T Development Needs

- *Dual-use Imaging/Detection for Wide-area CB Monitoring*
- *Non-intrusive Detection for CB Threats*
- *Integrated CB and Non-CB Sensor Network for Enhanced Threat Detection*
- *Unmanned, Semi-autonomous Systems for CBRN Threat Surveillance*
- *Rapid Response Decision Support Tools*
- *Manportable Field Detection/Diagnostic Equipment*

Future ATD Focus Areas

- *Unmanned Surveillance and Site Assessment*
- *Early Warning-driven Rapid Response*
- *Layered Detection Strategies for Base Protection*
- *CIV-MIL Capability Integration*

Integrated Force Protection

CBRNE Analytics

Response Capabilities



Upcoming JSTO Business Opportunities



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
<p>DTRA Chemical & Biological Technologies Department FY14-16 Broad Agency Announcement (BAA) (HDTRA1-14-CHEM-BIO-BAA)</p> <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract and grant awards• Additional topics may be added in the future; continue to monitor	<p>New amendments can be posted until the end of calendar year 2015</p>
<p>Small Business Innovation Research (SBIR) program</p> <ul style="list-style-type: none">• Opportunity for Small Business engagement in S&T program• Leads to contract• http://www.dodsbir.net/solicitation/default.htm	<p>Nov 2013 (DoD FY14.1 SBIR Solicitation) New Authorization of SBIR Program!</p>
<p>DTRA R&D Innovation Office – Science and Technology New Initiatives BAA (HDTRA1-11-16-RDIS-BAA)</p>	<p>Open Continuously</p>



Upcoming JSTO Business Opportunities



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Fundamental Research to Counter Weapons of Mass Destruction BAA (HDTRA1-09-14-FRCWMD-BAA)	Open Continuously
DTRA Basic Research for Combating Weapons of Mass Destruction (C-WMD) (HDTRA1-11-16-BRCWMD-BAA) GRANTS ONLY http://www.grants.gov	Annual call planned for December 2013
DTRA Chemical & Biological Technologies Department FY14-17 Non-Traditional Agents New Initiatives Broad Agency Announcement (BAA) (HDTRA1-14-17-NTA-BAA) <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract• Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2016



JPM-Guardian Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. Common Analytical Laboratory System (CALs) (EMD)		\$20M - \$40M	2Q FY14	Edgewood Contracting Office
2. Integrated Commercial Intrusion Detection System (ICIDS) – V		\$249M (Ceiling)	4Q FY14	Natick Contracting Office
3. Force Protection (FP) OMNIBUS (Equipment)		\$997M (Ceiling)	3Q FY15	Natick Contracting Office
4. Common Analytical Laboratory System (CALs) (Procurement)		\$600M - \$800M	1Q FY17	Edgewood Contracting Office
5. Force Protection (FP) Services OMNIBUS		\$249M (Ceiling)	2Q FY17	Natick Contracting Office
6. Automated Installation Entry (AIE)		\$249M (Ceiling)	3Q FY17	Natick Contracting Office



Opportunities



TITLE: Common Analytical Laboratory System (CALs)

PURPOSE: EMD CALs Prototypes Manufacturing

ESTIMATED VALUE: \$20M - \$40M

KEY MILESTONES:

- - RFI: Posted: 11 NOV 13 Response Date: 13 DEC 13
- - Issue RFP: 2Q FY14
- - Forecast Award: 4Q FY14

CONTRACTING CONTACT: Edgewood Contracting Office

SOLICITATION #: No Solicitation Number at this Time



Opportunities



TITLE: Integrated Commercial Intrusion Detection System (ICIDS) – V

PURPOSE: Fielding Activities

ESTIMATED VALUE: \$249M

KEY MILESTONES:

- - Issue RFP: 4Q FY14
- - Forecast Award: 2Q FY15

CONTRACTING CONTACT: Natick Contracting Office

SOLICITATION #: No Solicitation Number at this Time



Opportunities



TITLE: FP OMNIBUS (Equipment)

PURPOSE: Purchase of Force Protection (FP) Equipment

ESTIMATED VALUE: \$997M (Ceiling)

KEY MILESTONES:

- - Issue RFP: 3Q FY15
- - Forecast Award: 1Q FY16

CONTRACTING CONTACT: Natick Contracting Office

SOLICITATION #: No Solicitation Number at this Time



Opportunities



TITLE: Common Analytical Laboratory System (CALs)

PURPOSE: Production Contract

ESTIMATED VALUE: \$600M - \$800M

KEY MILESTONES:

- - Issue RFP: 1Q FY17
- - Forecast Award: 3Q FY17

CONTRACTING CONTACT: Edgewood Contracting Office

SOLICITATION #: No Solicitation Number at this Time



Opportunities



TITLE: FP Services OMNIBUS

PURPOSE: Purchase of Force Protection (FP) Services

ESTIMATED VALUE: \$249M (Ceiling)

KEY MILESTONES:

- - Issue RFP: 2Q FY17
- - Forecast Award: 4Q FY17

CONTRACTING CONTACT: Natick Contracting Office

SOLICITATION #: No Solicitation Number at this Time



Opportunities



TITLE: Automated Installation Entry

PURPOSE: Fielding Activities

ESTIMATED VALUE: \$249M

KEY MILESTONES:

- - Issue RFP: 3Q FY17
- - Forecast Award: 1Q FY18

CONTRACTING CONTACT: Natick Contracting Office

SOLICITATION #: No Solicitation Number at this Time



Program Points of Contacts



Joint Project Manager Guardian:

- JPMG, COL James Choung
- Deputy JPMG, Mr. Don Buley

james.k.choung.mil@mail.mil

donald.c.buley.civ@mail.mil

Technical Managers:

- S&T Director, Ms. Karen House
- JSTO/DTRA, Mr. Ryan Madden
- ERDC, Dr. Jason R. McKenna
- ARDEC, Mr. Robert Hesse III

karen.m.house.civ@mail.mil

ryan.madden@dtra.mil

jason.r.mckenna@us.army.mil

robert.m.hesse.civ@mail.mil



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Project Manager Information Systems (JPM-IS) JPEO-CBD



***DTRA Presenter: Jerry Glasow
J9 CB / CBDP JSTO CBD***

***JPEO Presenter: Michael Steinmann
Title: Deputy Project Manager***

5 December 2013

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



Mission



- **JPM IS Mission**
 - The mission of the Joint Project Manager for Information Systems (JPM IS) is to provide the information architecture and applications for shaping the battlespace against the Chemical, Biological, Radiological and Nuclear (CBRN) threat
 - JPM IS provides the Warfighter with integrated early warning capability, an accredited hazard prediction model, state-of-the-art consequence management, and course of action analysis tools
- **JSTO Mission**
 - To invest in transformational ideas, innovative people, and actionable technology development for Chemical and Biological Defense solutions



End-to-End CBRN Capabilities



Providing CBRN data and services to stakeholders across all levels of command, optimizing decision support, and shared situational awareness across DoD and HD.



Sensors and Systems



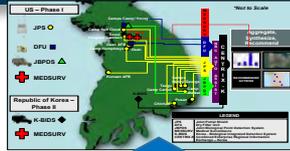
Warning, Reporting, & Dissemination of CBRN Information



Hazard Analysis & Predictions



Decision Support/ Incident Management



Common Enterprise Standards, Protocols, Information Assurance, Architecture

Enterprise solutions supporting collection, analysis, and dissemination of actionable CBRN information.



JEM Program Description/Benefit



Description

Web-Based, Software Application

- DoD accredited and operational tested model that provides time-phased impact of CBRN and TIM events
- Provides hazard plots in various formats to be pushed to the Common Operational Picture (COP) or other Warning & Reporting applications

Standalone and Command & Control (C2) Variant

- Standalone: Installed on desktop/laptop personal computer / C2 Variant: Integrated into DoD C2 systems (GCCS-J/A/AF/M, C2PC/JTCW, CPOF, BC Web/COE)

Current Users - USA, USAF, USMC, USN, National Guard Bureau, Civil Support Teams, COCOMs



Contracts/Phase of Development

Currently in Product Deployment/Operations & Support Phase

Incr. 1 Contract Awarded in Feb 2012 to Northrop Grumman

- Base year, 4 option years
- RDT&E / Procurement / O&M / FMS
- Upgrades & Maintenance to existing Incr. 1 software baseline

Competitive Prototyping Contract for next Capability Drop Awarded in Apr. 2013

- 2 competitors: GDIT and IEM
- Midterm Demonstration – Oct. 2013
- Final Demonstration & Down-Select – Feb. & Mar. 2014

Benefits to the Warfighter

- Predict high-fidelity downwind hazard areas and effects associated with the release of CBRN and Toxic Industrial Materials (TIM) into the environment
- Incorporate impacts of weather, terrain, and material interactions into prediction
- Provide enhanced situational awareness of the battlespace and to provide real-time hazard information to influence and minimize effect on current operations

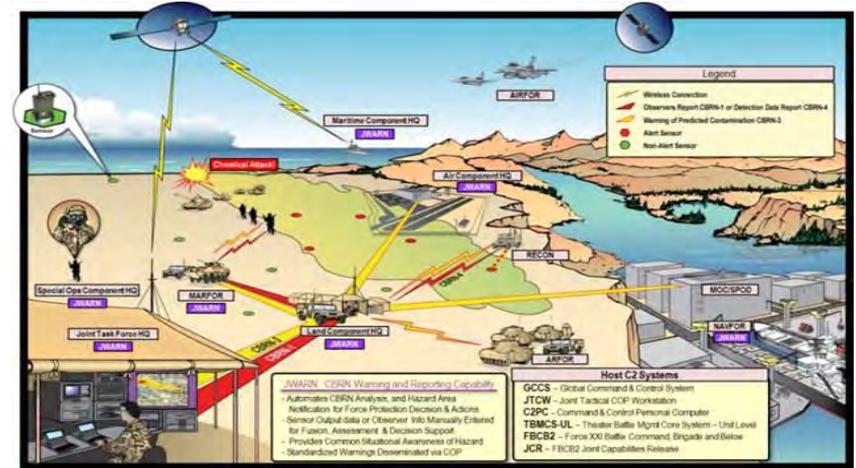


JWARN Program Description/Benefit



Description

- JWARN is the single, validated and accredited implementation of Allied Tactical Publication 45 (ATP-45) with the capability to predict and display the transport and dispersion of Chemical, Biological, Radiological, and Nuclear (CBRN)/Toxic Industrial Chemical/Material (TIC/TIM) events.
- JWARN Sensor Connectivity Component (SCC) will provide direct connection of CBRN sensors to JMAS enhancing the Early Warning Capability.



Contracts/Phase of Development

Incr. 1: Product Deployment/Operations & Support Phase

- Current contract expires 15 DEC 2013
- New contract award for Incr. 1 maintenance & Incr. 2 Software pending award NOV/DEC 2013

Incr. 2 Software: Technology Development Phase

- Contract pending award NOV/DEC 2013
- Base year with 4 options

Incr. 2 Sensor Connectivity Component (SCC)

- AoA has recently been completed
- Solution TBD
- MS A, projected for MAR/APR 2014

Benefits to the Warfighter

Provides Joint Force Commander capability to:

- Report CBRN and 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, disseminate NBC reports
- Analyze detections to enable identification of the hazard and plot affected locations.
- Auto generation of ATP-45 hazard warning area.
- Disseminate (de)warning info to affected units.



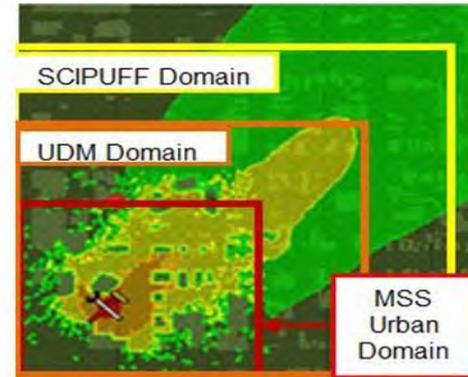
JSTO Information and Analysis Office (CBI)



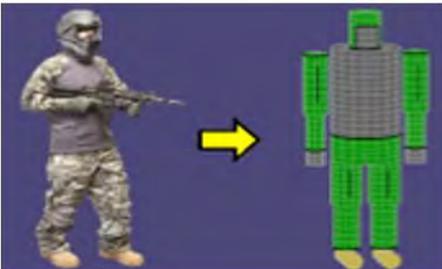
Mission
Provide and use CBRN information and analysis capabilities to enable and support operational & programmatic decision-making.



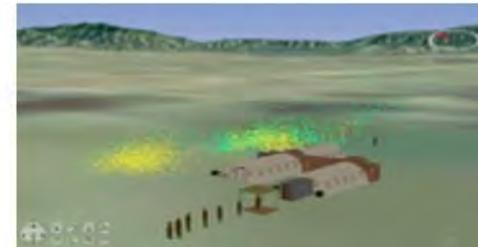
CBRN Hazard Prediction & Warning
The “What?” & “Who Do I Warn to Do What?”
Enable prediction of initial hazards, exposures, casualties, and infections
Enable timely and accurate warnings and recommended actions



CBRN Risk & Operational Effects
The “So What?” & “What Do I Do to Recover?”
Enable Assessment & Mitigation of Impacts at the Person, System, Tactical, Operational, and Strategic Levels



CBRN Data
The “What Data Tells Us That?”
Enable Discovery, Access, & Usability of CBRN Data
Per DoD Data Policies





CBI Plans: FY15 & 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 Modeling (In to Out, Out to 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;

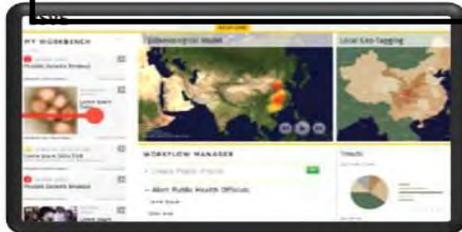


JSTO Threat Surveillance Branch (CBAS)



Mission

Deliver cutting edge *Integrated Early Warning, Information Management and Applied Analytic* capabilities to the warfighter; virtually connect them to these capabilities and other system users for *rapid situational awareness, course of action (CoA) analysis and decision support*



BSV Ecosystem (BSVE)

Develop a framework for disease surveillance information management, analysis & collaboration



Data Sources & Analytic Tools

Discover & leverage novel data streams to inform advanced outbreak prediction, detection & forecasting capabilities. Integrate field forward diagnostic data.

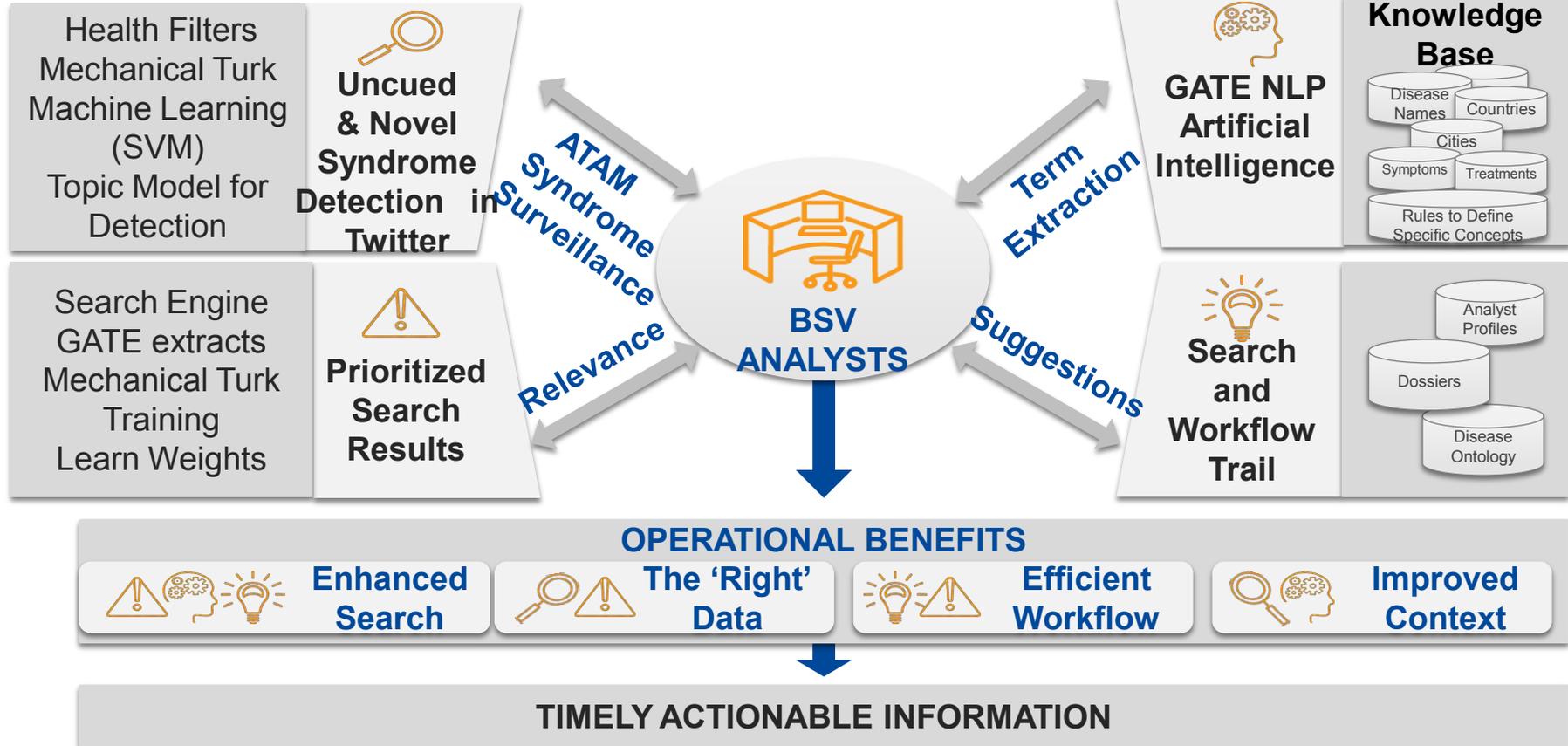


Advanced Demonstrations

Field test advanced capabilities for technology evaluation & CONOPS development



BSVE: S&T Enhancing BSV Programs





Business Opportunities (1)



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
<p>DTRA Chemical & Biological Technologies Department FY14-16 Broad Agency Announcement (BAA) (HDTRA1-14-CHEM-BIO-BAA)</p> <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract and grant awards• Additional topics may be added in the future; continue to monitor	<p>New amendments can be posted until the end of calendar year 2015</p>
<p>Small Business Innovation Research (SBIR) program</p> <ul style="list-style-type: none">• Opportunity for Small Business engagement in S&T program• Leads to contract• http://www.dodsbir.net/solicitation/default.htm	<p>Nov 2013 (DoD FY14.1 SBIR Solicitation) New Authorization of SBIR Program!</p>
<p>DTRA R&D Innovation Office – Science and Technology New Initiatives BAA (HDTRA1-11-16-RDIS-BAA)</p>	<p>Open Continuously</p>



Business Opportunities (2)



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Fundamental Research to Counter Weapons of Mass Destruction BAA (HDTRA1-09-14-FRCWMD-BAA)	Open Continuously
DTRA Basic Research for Combating Weapons of Mass Destruction (C-WMD) (HDTRA1-11-16-BRCWMD-BAA) GRANTS ONLY http://www.grants.gov	Annual call planned for December 2013
DTRA Chemical & Biological Technologies Department FY14-17 Non-Traditional Agents New Initiatives Broad Agency Announcement (BAA) (HDTRA1-14-17-NTA-BAA) <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract• Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2016



Opportunities



TITLE: JWARN Increment 2 Hardware

CONTRACT TYPE: Prototype – TBD / Full-Open Competition

ESTIMATED VALUE: Estimate \$11.0M - \$36.0M*

**Based on initial estimates from the resulting AoA. Overall numbers could change based on final Materiel Solution (from future prototyping efforts) and final procurement quantities.*

KEY MILESTONES:

- **Issue RFP: Projected release date - 2QFY16**
- **Forecast Award: Projected date – 2QFY17**

CONTRACTING CONTACT: Kevin Kumferman

SOLICITATION #: TBD



JPM-Information Systems Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. JWARN Increment 2 Hardware	Prototype – TBD / Full- Open Competition	\$11.0M- \$36.0M	2QFY16	Contracting POC: Kevin Kumferman



Program Points of Contact



- Mr. Scott White, JPM IS
scott.white@jpmis.mil
- Mr. Mike Steinmann, Deputy JPM IS
michael.steinmann@jpmis.mil
- Mr. Thomas Smith, JEM Acquisition Program Manager
thomas.r.smith@jpmis.mil
- CAPT Malachy Sandie, JWARN Acquisition Program Manager
malachy.sandie@jpmis.mil
- Mr. Brandon Flores, BSP Acquisition Manager
brandon.flores@jpmis.mil
- Mr. Jerry Glasow, Chief, DTRA J9 CBI
jerry.glasow@dtra.mil
- Dr. John Hannan, Chief, Surveillance Branch, DTRA J9 CBA
john.hannan@dtra.mil



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Joint Program Executive Office for Chemical and Biological Defense Joint Project Manager Elimination



Jeffrey Harris
Project Manager
George Lawson
Deputy Project Manager
5 December 2013

This information is being released for APBI informational purposes only, and does not constitute an invitation for bid or request for proposal. It is not a commitment by the government to purchase the desired products and services.



Program Overview



Joint Project Manager for Elimination (Provisional)

JPM-E (P) provides the Department of Defense and other stakeholders with capabilities that include development and fielding of assessment and destruction technologies for weapons of mass destruction; and contamination management encompassing a broad range of solutions. Established in August 2013, JPM-E (P) will be fully assigned under the Joint Program Executive Office for Chemical and Biological Defense by October 2014.

Mission: Develop, produce, test, integrate, sustain, operate and field the capabilities required to conduct WMD elimination operations and recovered chemical warfare materiel elimination; and provide domestic chemical, biological, radiological and nuclear (CBRN) response support.

Vision: To be the DoD's premier acquisition enterprise delivering agile and tailored capabilities supporting WMD elimination.



Opportunities



TITLE: Life Cycle Logistics Support and Chemical Demilitarization Training Facility Operation and Maintenance, Fiscal Years 2015-2019

CONTRACT TYPE: Competitive, best value, resulting in a single source indefinite-delivery, indefinite-quantity (IDIQ) contract type award, with a 5-year ordering period covering the Life Cycle Logistics Support, CDTF Operations, and Training

ESTIMATED VALUE: Between \$1-10 million/year during each year of execution

PERIOD OF PERFORMANCE: September 2015 – September 2019, with yearly task awards following initial contract award

KEY MILESTONES: Award by September 2015

CONTRACTING CONTACT: Kevan Woodin, RICC, and Alan Seitzinger/Jerry Hawks, JPM-E

PRE-SOLICITATION NOTICE #:

JPM-Elimination Opportunities Summary



OPPORTUNITY	CONTRACT TYPE	EST'D VALUE	ISSUE RFP	CONTACT
1. Life Cycle Logistics Support and Chemical Demilitarization Training Facility Operation and Maintenance	Competitive, best value	\$5-50 M	4Q2015	Contracting POC: Kevan Woodin, RICC, and Alan Seitzinger/Jerry Hawks, JPM-E



WMD Elimination S&T Planned Demonstration Program



*WMD-E Advanced Technology Demonstration (ATD)
DTRA J9-CB Sponsor (FY15-17)*

ATD FOCUS:

*Sense and Shape Capability Areas (proposed)
– Enhance Isolation and Exploitation Operations*

PROGRAM OF RECORD ALIGNMENT:

*Compliment JPM-E Capability Development
– Characterize Threat to Enable Effective Destruction*

OPERATIONAL ALIGNMENT:

*Joint Experiment with Combat Developer to Baseline ATD,
Military Utility Assessment of ATD Outcomes*

CAPABILITY DEVELOPMENT:

Edgewood Chemical Biological Center (ECBC) Managed

Integration & Mission Application



WMD Elimination S&T Overview and Alignment



Fielding and Sustainment Partners
Joint Project Manager Elimination (JPM-E)
Cooperative Threat Reduction Program (DTRA J3-CTC)

WMD-Elimination

Steps

ISOLATION

Locate, Isolate, Seize/Secure, Confirm/Deny

EXPLOITATION

Preservation, Characterize, Exploit, Disable/Neutralize

DESTRUCTION

Destroy, Dismantle, Remove, Transfer, Dispose

MONITORING AND REDIRECTION

Elimination Mission Application

Yellow – DTRA J9-CB S&T Pipeline



WMD Elimination S&T Near-term Development Needs



Capability Areas and Technologies

Application

Sense

- *Satellite/Air Location*
- *Unmanned Characterization*
- *Rapid Detection of Container Contents*

Shape

- *Tagging/Tracking WMD*
- *Hazard Assessment and Prediction Tools*

*Isolation,
Exploitation*

Shield

- *Low-logistics PPE*
- *Incorporated Communications*
- *Incorporated Physiology and WMD Monitors*

Sustain

- *Puncture and Transfer Tech*
- *Non-intrusive Detection*
- *Headspace Control*
- *Hydrolysis Improvements*

*Destruction,
Monitoring*



WMD Elimination S&T Future Demonstration Program



*WMD-E Advanced Technology Demonstration (ATD)
DTRA J9-CB Sponsor (FY15-17)*

ATD FOCUS:

*Sense and Shape Capability Areas (proposed)
– Enhance Isolation and Exploitation Operations*

PROGRAM OF RECORD ALIGNMENT:

*Compliment JPM-E Capability Development
– Characterize Threat to Enable Effective Destruction*

OPERATIONAL ALIGNMENT:

*Joint Experiment with Combat Developer to Baseline ATD,
Military Utility Assessment of ATD Outcomes*

CAPABILITY DEVELOPMENT:

Edgewood Chemical Biological Center (ECBC) Managed

Integration & Mission Application



Business Opportunities (1)



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Chemical & Biological Technologies Department FY14-16 Broad Agency Announcement (BAA) (HDTRA1-14- CHEM-BIO-BAA) <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract and grant awards• Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2015
Small Business Innovation Research (SBIR) program <ul style="list-style-type: none">• Opportunity for Small Business engagement in S&T program• Leads to contract• http://www.dodsbir.net/solicitation/default.htm	Nov 2013 (DoD FY14.1 SBIR Solicitation) New Authorization of SBIR Program!
DTRA R&D Innovation Office – Science and Technology New Initiatives BAA (HDTRA1-11-16-RDIS-BAA)	Open Continuously



Business Opportunities (2)



<u>Solicitation/Opportunity</u>	<u>Time Period</u>
DTRA Fundamental Research to Counter Weapons of Mass Destruction BAA (HDTRA1-09-14-FRCWMD-BAA)	Open Continuously
DTRA Basic Research for Combating Weapons of Mass Destruction (C-WMD) (HDTRA1-11-16-BRCWMD-BAA) GRANTS ONLY http://www.grants.gov	Annual call planned for December 2013
DTRA Chemical & Biological Technologies Department FY14-17 Non-Traditional Agents New Initiatives Broad Agency Announcement (BAA) (HDTRA1-14-17-NTA-BAA) <ul style="list-style-type: none">• Extramural (non-US Government) only, leading to contract• Additional topics may be added in the future; continue to monitor	New amendments can be posted until the end of calendar year 2016



ABERDEEN PROVING GROUND
ADVANCED PLANNING BRIEFINGS TO INDUSTRY 2013

Mr. Andre' Gudger
Director
Department of Defense
Office of Small Business Programs



ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY

U.S. Army Research, Development and Engineering Command



Edgewood Chemical
Biological Center
(ECBC)

Ms. Suzanne Milchling
Director of Program Integration, ECBC
5 December 2013



Core Competency, Mission & Vision



CORE COMPETENCY

Working *safely* with chemical and biological agents in research, engineering and operations for DoD and the Nation.

MISSION

Integrate lifecycle science, engineering and operations solutions to counter CBRNE threats to U.S. forces and the Nation

VISION

To be the premier resource for chemical, biological, radiological, nuclear and explosives solutions, uniting and informing the national defense community.

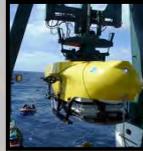
Overview - ECBC Core Capabilities



**Chemistry and
Biological Sciences**



**Science and Technology
for Emerging Threats**



**CBRNE Analysis
and Testing**



**CBRNE Materiel
Acquisition**



**CB Agent Handling
and Surety**



**CB Munitions and
Field Operations**



Where ECBC Fits



Team CBRNE



Surgeon General



Army Materiel Command (AMC)



Assistant Secretary of the Army for Acquisition, Logistics and Technology ASA(ALT)



Training and Doctrine Command (TRADOC)



Forces Command (FORSCOM)



Medical Research and Materiel Command (MRMC)



Chemical Material Activity



U.S. Army Research, Development & Engineering Command (RDECOM)



Edgewood Chemical Biological Center (ECBC)



Joint Program Executive Office for Chemical & Biological Defense (JPEO-CBD)



Program Executive Office Assembled Chemical Weapons Alternative (PEO-ACWA)



U.S. Army CBRN School



20th CBRNE Command



Medical Research Institute of Chemical Defense (MRICD)



Medical Research Institute of Infectious Diseases (MRIID)

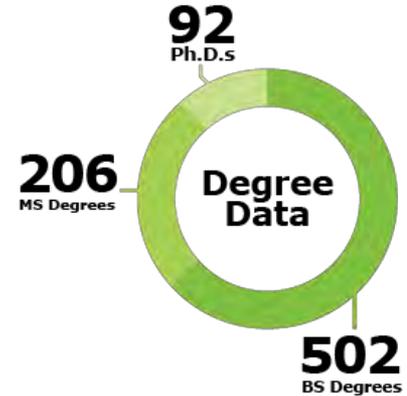
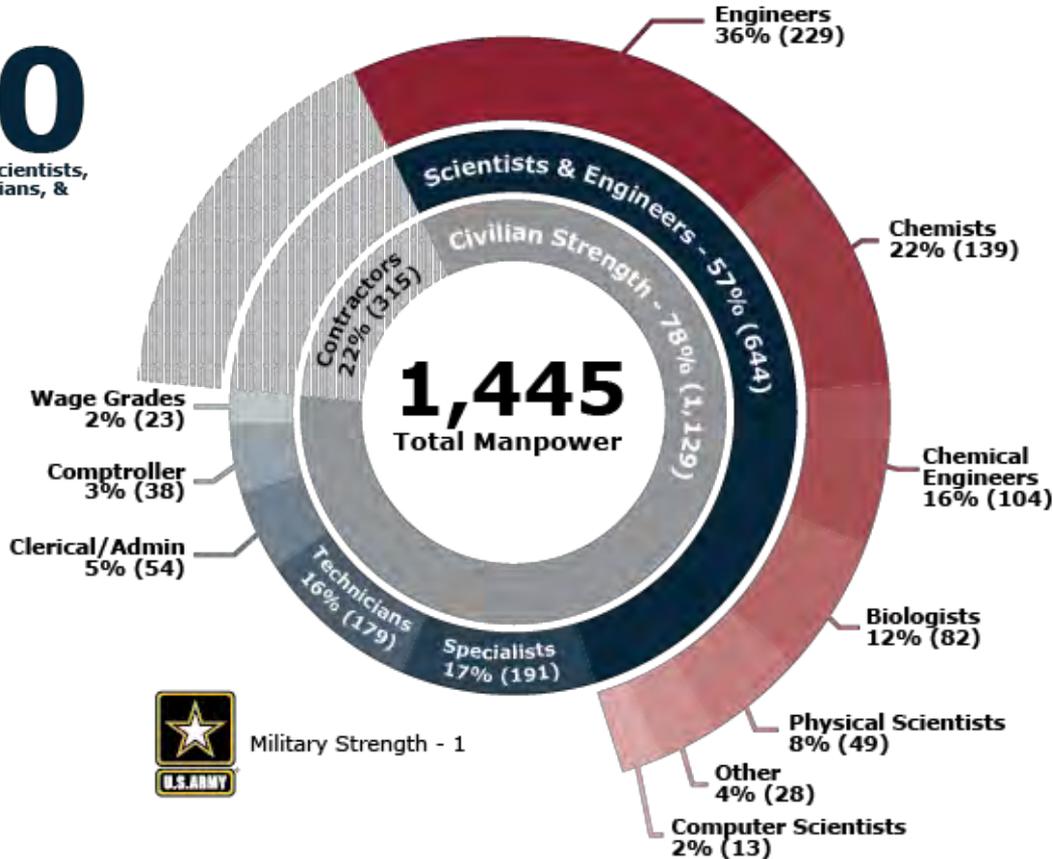


Overview - ECBC Specialized Workforce



250

Field-deployable scientists, engineers, technicians, & operators



Military Strength - 1

*as of 4Q FY13



Overview - ECBC Unique Facilities



Facilities

- \$1.8 billion in facilities, equipment
- 1.22 million square feet of critical laboratory and chamber space
- Over 200 buildings
- Sophisticated environmental controls
- Robotic components
- 317 chemical surety hoods
- 66 BSL-2 and BSL-3 hoods
- 3 explosive/toxic test chambers
- 30 multi-purpose mobile platforms for air monitoring
- 30 operational mobile laboratories with hoods and glove boxes

Major Research Facilities



Advanced Chemistry Laboratory



McNamara Life Sciences Bldg.



Bio Engineering Laboratory



Forensic Analytical Center

Engineering & Test Facilities



Toxic Test Chambers



Aerosol Test Facilities



Berger Engineering Complex

One-of-a-Kind Facilities



Standoff Detection Technology Evaluation Facility



Sample Receipt Facility



Emerging Threat Chamber



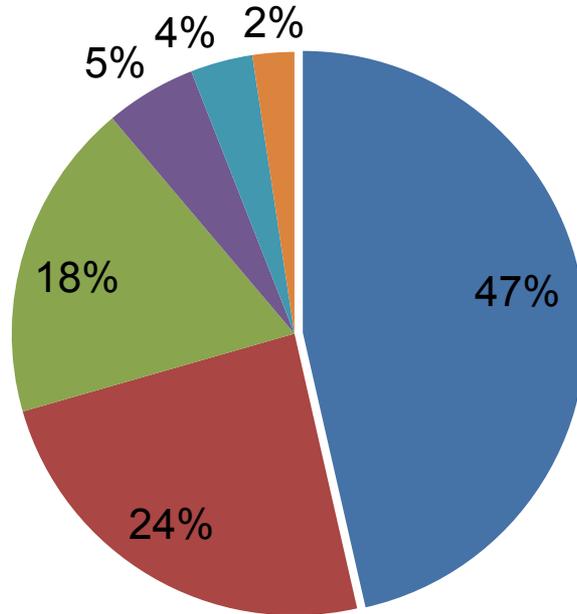
Single Small-Scale Facility



Contracts Awarded in FY 13



FY 13 Awards in \$M



- Admin Services (\$58.7 M)
- Basic R&D (\$30.5 M)
- QC/Lab Testing/Equip (\$23.2 M)
- Maintenance/Bldg Spt/Env (\$6.6 M)
- Education/Trng/Trans/Comm Svs (\$4.5 M)
- ADP/IT Software/Equip (\$3 M)

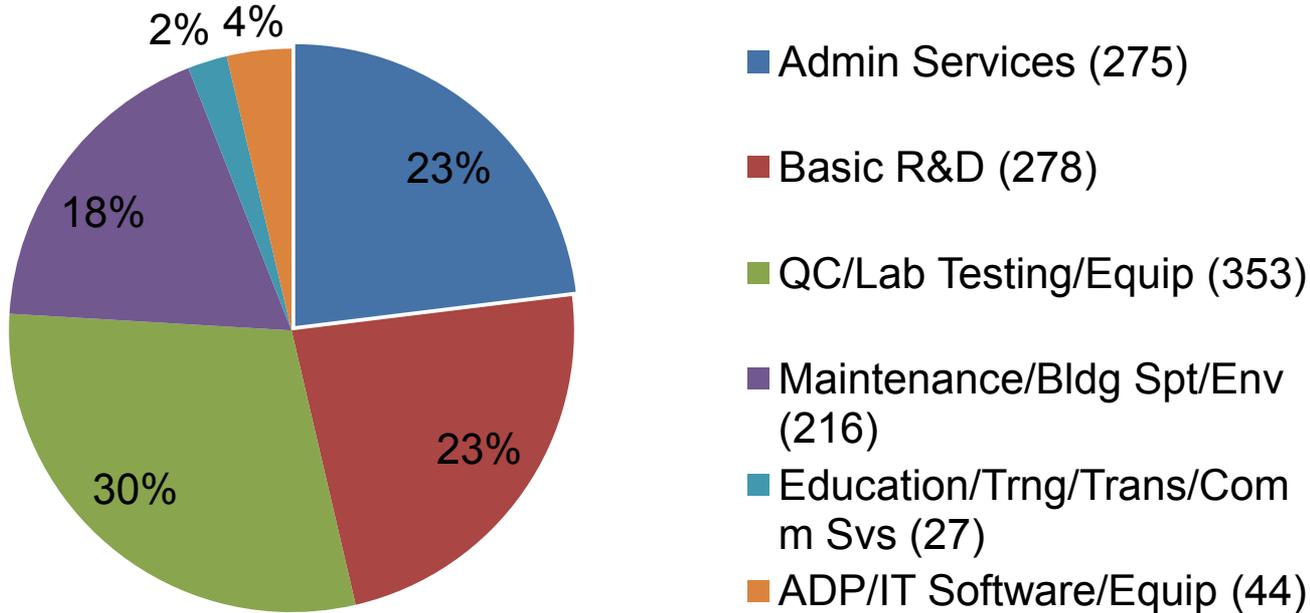
Total = \$126.5 M



Contracts Awarded in FY 13



FY 13 Awards Based Upon Total Number of Awards



Total = 1193 awards



Existing Contracting Opportunities



Always check **FedBizOpps.gov** website

The CBRNE Mission Support Contract (MSC)

- Indefinite Delivery, Indefinite Quantity (IDIQ) vehicle
- Covers a majority of ECBC's mission requirements
- Modifications to basic contracts being issued to clarify remaining ordering period and Period of Performance (POP)
- Unrestricted POP is 28 Jan 2015; Small Business POP is 29 Mar 2015

Small Business Awardees

- Science and Technology Corporation
- Quicksilver Analytics, Inc
- Innovative Emergency Management, Inc
- Advanced Concepts and Technologies International
- STEM International
- SciTech Services, Inc
- Joint Research and Development, Inc (JARD)
- Excet Inc
- Davis-Paige Management Systems LLC

Unrestricted Awardees

- Camber Corporation
- SciTech Services
- Teledyne Brown Engineering, Inc
- Science Applications International Corp (SAIC)
- Midwest Research Institute (MRI)
- Booz Allen Hamilton Inc
- Northrop Grumman Corporation
- ITT Corporation
- Battelle Memorial Institute
- Science & Technology Corporation



Existing Contracting Opportunities



The Chemical Biological Application and Risk Reduction (CBARR) MSC

- IDIQ vehicle
- Covers many of ECBC's operational requirements
- Current Awardee: SM Resources Corporation
- POP through 27 Feb 2015

Facility and Logistics contract

- Firm-Fixed-Price (FFP) contract
- Operation and maintenance of ECBC's facilities
- Current Awardee: TK Services Incorporated
- POP through 12 May 2016



Broad Agency Announcement (BAA)



Broad Agency Announcement (BAA) ECBC-11 supports the acquisition of unique and innovative concepts for basic and applied research and development efforts not related to the development of specific systems or hardware through the receipt of concept papers as described in section 5 of the BAA. ECBC competitively solicits project offers in the Technical Topic areas set forth in section 7 of the BAA, which include:

- Aerosol technology
- Decontamination
- Biological detection
- Early warning and detection
- Biotechnology
- Flame and incendiary technology
- Chemical detection
- Modeling, simulation & analysis
- Collective protection
- Respiratory protection
- Counterterrorism
- Smoke/obscurant munitions

The BAA is revised approximately every year. It is continually open for submissions, which are evaluated on their own merit against the Government's requirements, not against the submissions of other offerors. If in compliance with the criteria and requirements outlined in section 3.2 of the BAA and evaluated favorably, a potential procurement action could follow, contingent upon the availability of funding and in conformance with applicable procurement regulations.

- Please see:

https://www.ecbc.army.mil/about/download/ECBCBAA2011_rev-22-MAR-13.pdf



SBIRs and STTRs



ECBC has participated in the Army Small Business Innovation Research (SBIR), Chemical, Biological Destruction (CBD) SBIR and Army Small Business Technology Transfer (STTR) programs since their inceptions. Designed to stimulate technological innovation and increase small business participation in federal research and development (R&D), these programs consist of three phases:

- Phase I – Proof-of-Concept/Feasibility Study
 - SBIR: The maximum dollar amount = \$100,000. The Phase I Option, which must be proposed as part of the Phase I proposal, covers activities over a period of up to three months (for CBD SBIR) or four months (for Army SBIR) at a cost not to exceed \$50,000.
 - STTR: Phase I awards normally do not exceed \$100,000 in total costs for 1 year. There is no Phase I Option in STTR.
- Phase II - Two-Year Development
- Phase III – Commercialization, either private or government (involves non-SBIR funding)

These programs generally define a small business as one with less than 500 employees. Proposal selections are determined via competitive, merit-based procedures.

To learn more, please visit:

- <https://www.armysbir.army.mil/>
- <https://www.cbdsbir.net/>



Upcoming Contracting Opportunities



AB SCIEX Maintenance Service Agreement

Contract Type: Maintenance agreement

Est. Value: Less than \$650,000

Key Milestones:

- Issue RFP: 2nd Qtr FY14
- Forecast Award: 4th Qtr FY14

Contracting Contact: TBD

Solicitation #: TBD

Description:

This is for service maintenance of 4 analytical platforms. The platforms are Triple Quad Mass Spectrometry units, built by AB SCIEX.

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



Upcoming Contracting Opportunities Cont.



Mission Support to the Decontamination Sciences Branch

Contract Type:

TBD: BAA, CBRNE MSA, or other contract mechanism

Est. Value: Less than \$10M ceiling

Key Milestones:

- Issue RFP: 4th Qtr FY14
- Forecast Award: 1st Qtr FY15

Contracting Contact: TBD

Solicitation #: TBD

Description:

To obtain **technical, analytical and logistical support** for the numerous **decontamination efficacy studies** underway within the Decontamination Sciences Branch of ECBC. Decontamination technologies under study at ECBC are evaluated to determine the degree in which chemical warfare agents or other toxic chemicals can be degraded. A variety of analytical and mathematical techniques are required to assess the efficacy of the technologies in destroying the agents, to determine residual hazards from agent vapors and/or residual contaminated surfaces, and to characterize the degradation products of the decontaminated agents.

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



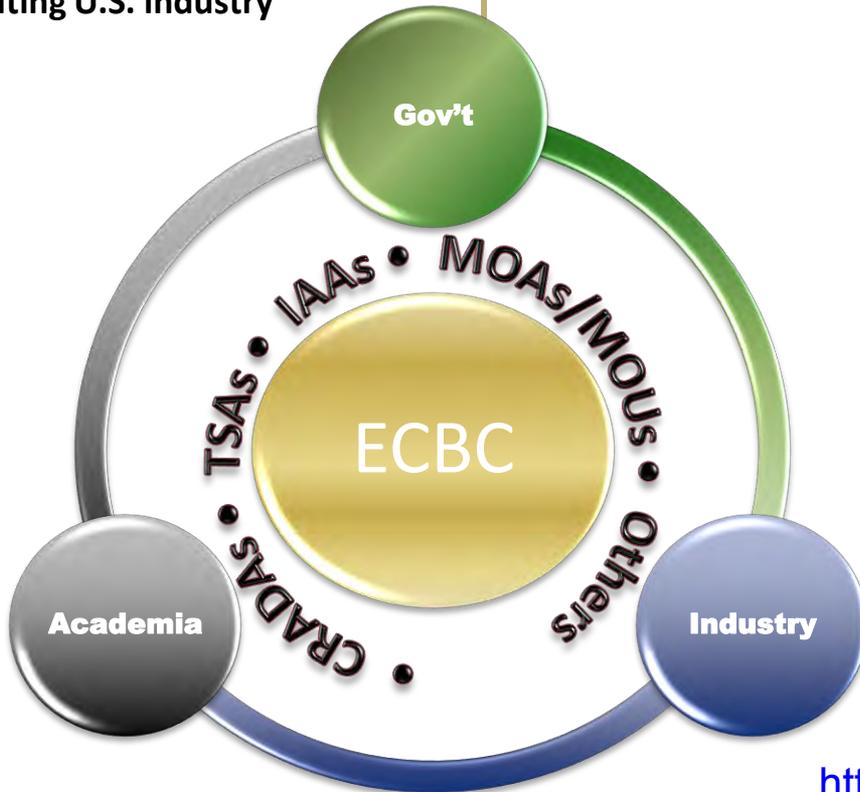
Technology Transfer at ECBC



Enables ECBC to accomplish technology transition objectives for the warfighter while benefiting U.S. industry

Allows R&D collaborations, product development and testing with industry and academia

Enables industry, academia and other organizations to leverage ECBC's unique assets: intellectual property portfolio, S&E expertise, and infrastructure



Mechanisms include:

- Cooperative Research & Development Agreement (CRADA)
- Technology Support Agreement (TSA)
- Patent License Agreement (PLA)
- Other Agreements (IAA, MOA, MOU)



<https://www.ecbc.army.mil/about/working.html>



Flexible T2 Agreement Formation



ECBC Strives to Remain Flexible in Forming Innovative T2 Partnerships

Allied Minds Federal Innovations CRADA

- To form public-private partnership with private equity firm to accelerate commercialization of select government inventions
- Responsive to the **2011 Presidential Memorandum on Accelerating Technology Transfer and Commercialization of Federal Research in Support of High-Growth Businesses**

University of Maryland, Baltimore (UMB) Educational Partnership Agreement (EPA)

- To create a cooperative research internship program where UMB graduate students assist with ECBC research projects while earning academic credit



T2 Success with Small Business



10 National Awards for *Excellence in Technology Transfer* from the Federal Laboratory Consortium (FLC)

CBRN Unmanned Ground Vehicle (CUGV)

- CRADA with iRobot



Tactical-Biological Detector (TAC-BIO)

- Licensed to Research International, Inc. and ChemRing



Biological Sampling Kit (BiSKit)

- Licensed to QuickSilver Analytics





Patent License Agreement (PLA) Opportunities



Through PLAs, ECBC has transferred several innovative technologies, such as its transportable glove-box system and air transportable modular analytical laboratory to industry and academia for commercialization

- **BIOPLEGG™ Method for Simultaneously Detecting Multiple Biological Threat Agents** (US PAT. 8,367,327) and **Multiplex Field Device to Detect and Identify a Variety of Microbial Agents Simultaneously** (US Pat. 7,851,207)
- **Aerosol Inlet Flow Modulator**
(US Pat. 8,281,809)
- **Water Sampling Device and Method for Use with a Radiation Probe**
(US Pat. 8,342,337)
- **Mobile Power Distribution System**
(US Pat. 8,427,814)
- **Colorimetric Reconnaissance Explosives Squad Screening (CRESS) Kit**
(information to be posted on FedBizOpps.gov) (Patent Pending)

<https://www.ecbc.army.mil/about/pla.html>



Technology Driven
Warfighter Focused

EDGEWOOD CHEMICAL BIOLOGICAL CENTER

For more information about the Edgewood Chemical Biological Center visit www.ecbc.army.mil or email technical.outreach@apea.army.mil





ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFINGS TO INDUSTRY



Chemical Biological Defense Product Support Integration Directorate TACOM LCMC



***Mr. Craig Coger
Group Leader, IPOD
5 December 2013***

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 Defense PSID



Mission:

To Acquire, Sustain and Issue Chemical & Biological Defensive Equipment for the warfighter, through the integration of effective and timely Acquisition, Logistics and Supply Chain Management principles and techniques.

Vision:

To be the preferred organization to provide our Warfighters with superior Chemical & Biological Defensive equipment that translates into survivability, mobility, and sustainment for battlefield dominance, now and in the future. We unite with our strategic partners in the Joint Program Executive Office for Chemical & Biological Defense, Army Contracting Command and the Edgewood Chemical Biological Center (ECBC) to form a results-oriented and adaptable capability for the U.S. Military.



What TACOM LCMC Provides



Logistic Infrastructure

Material Management

Includes, but not limited to:

- Managing, planning, tracking
- Cataloging
- Requirements determinations
- Procurement
- Distribution, overhaul
- Asset visibility
- Disposal of materiel
- Surveillance tracking
- Calibration monitoring
- Equipment PMCS monitoring

Maintenance

Includes, but not limited to:

- Managing, planning, scheduling
- Preventive maintenance
- Condition monitoring
- Maintenance repairs
- Provisioning
- Equipment training
- Technical data
- Tech Writing

Acquisition Infrastructure

Partnership w/Army Acquisition Command

Includes, but not limited to:

- Contracting
- Omnibus/Performance Based
- Contractor log support
- Post-award management reporting
- Best value contracting based on requirements
- Access to General Services Administration (GSA)

Engineering Infrastructure

Partnership w/ Edgewood Chemical Biological Center (ECBC)

Includes but is not limited to:

- Engineering, Quality Assurance, Testing
- Configuration Management , Industrial Base



Individual Protection



Primary Equipment Support

- **Fielded/Sustained:**
 - M40A1 and M42 Protective Mask (M40A1/M42A2)
 - M45 and M48 Protective Mask
 - JSAM Apache Air Crew Mask (MPU-6)
 - M50/M51 Joint Service General Purpose Mask (JSGPM)
 - M52 Joint Service Chemical Environment Survivability (JSCESM)
 - M53 Chemical Protective Mask (M53)
 - M41 PATS Mask Tester & STEPO
 - AP-PPE All Purpose Personal Protective Equipment Suits
- **Transitional/Developmental:**
 - All-Purpose Personal Protective Ensemble (AP-PPE)
 - Uniform Integrated Protective Ensemble (UIPE)





M40A1/M42A2 Mask



Purpose/Use:

The M40A1/M42A2 Field Protective Mask is one of various gas masks used by the military of the United States and its allies to protect from field concentrations of chemical and biological agents, as well as radiological fallout particles. It is being replaced by the Joint Service General Purpose Mask (JSGPM) (M50/M51), which is currently fielded to the Navy, Marines, and Air Force; fielding to the Army initiated in 4th Qtr FY13.





Individual Protection Equipment



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
4240-01-260-8706	M40/42 NEUTRAL OUTSERTS	Y	Y	TBD	TBD	70,000	70,000	\$2,000,000
4240-01-260-8707	M40/42 CLEAR OUTSERTS	Y	Y	TBD	TBD	60,000	60,000	\$1,800,000
4240-01-361-1319	M40/42 C2A1 CANISTER	Y	Y	11/20/2013	12/20/2013	60,000	60,000	\$780,000
4240-01-441-0557	M40 INTERNAL DRINK TUBE	Y	Y	4/24/2013	TBD	50,000	50,000	\$67,000
4240-01-260-8699	M40/M42 Cover Outlet valve	Y	Y	4/24/2013	TBD	50,000	50,000	\$471,000
4240-01-260-8711	M40 INTERNAL DRINK TUBE	Y	Y	4/24/2013	TBD	50,000	50,000	\$66,000



Joint Service General Purpose Mask (M50/M51)



Purpose/Use:

The JSGPM M50 and M51 Mask Systems were developed to satisfy the need for improved individual above-the-neck protection against chemical agents, biological agents and radioactive particles for ground, special operations, and combat vehicle crewmen (CVC) personnel. The M50/M51 mask systems will replace the M40/M42 and MCU-2/P series of masks, and the M45 in the Land Warrior Program. The M50/M51 is currently **fielded to the Navy, Marines, and Air Force; fielding to the Army initiated in 4th Qtr FY13**





Individual Protection Equipment



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
4820-01-528-9292	M50 SELF SEALING DISC VALVE	Y	N	Dec 2013	May 2014	82,000	82,000	\$1,000,000
4240-01-529-1399	M61 CHEMICAL CANISTER	Y	N	Nov 2013	Mar 2013	634,000	634,000	\$1,000,000
4240-01-529-1398	OPERATOR CARD	Y	N	Mar 2014	Jun 2014	22,000	22,000	\$200,000
4820-01-528-9291	M50 INLET/OUTLET DISK VALVE	Y	N	Dec 2013	May 2014	189,000	189,000	\$3,000,000
4240-01-617-0948	UNIVERSAL FACEFORM	N	Y	Oct 2013	Dec 2013	30,000	10,500	\$74,000



All Purpose – Personal Protective Ensemble (AP-PPE)



Purpose/Use:

The AP-PPE Over Garment provides protection against Chemical-Biological contaminants when worn as part of a ensemble. The AP-PPE was developed by SOCOM and adopted by the Coast Guard. The Coast Guard had the last contract for the AP-PPI





Individual Protection Equipment



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
8415-01-600-0269	AP-PPE Suit – Real (comprised of 32 NSNs)	N	N	16 Oct 2013	June 2014	1000	1000	\$2,900,000
8415-01-599-6369	AP-PPE Suit – Trng (comprised of 32 NSNs)	N	N	16 Oct 2013	June 2014	300	300	\$400,000



Biological Defense



Primary Equipment Support

- **Fielded/Sustained:**

- Biological Integrated Detection System (BIDS)
- Joint Biological Point Detection System (JBPDs)
- Lateral Flow Immunoassays (LFI's)
- Dry Filter Unit (DFU)
- Biological Sampling Kits

- **Transitional/Developmental:**

- Joint Biological Tactical Detection System (JBTDS)
- Fixed Emplacement Detection (FED)





Joint Biological Point Detection System (JBPDS)



Purpose/Use:

The Joint Biological Point Detection System (JBPDS) provides early warning detection and identification of biological warfare agents to supported forces. It provides biological agent point-detection, identification, and sampling capability and can be integrated into multiple platforms (vehicles, ships). The system automatically detects and identifies up to ten agents simultaneously in less than 20 minutes.





Biological Defense



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
6665-01-537-8112	GLASS TUBE ASSEMBLY	N	N	Mar 2015	Jul 2015		100	\$135,000
6665-01-539-5590	CARRIER ASSEMBLY	N	N	Mar 2015	Jul 2015		60	\$16,000
5998-01-542-4480	CIRCUIT CARD ASSEMBLY	N	N	Jan 2014	May 2014	20		\$26,000
6665-01-542-4483	KIT,SYRING,VALVE	N	N	Jan 2014	May 2014	35		\$65,000
6685-01-544-2673	CONTROL,HUMIDITY	N	N	Jan 2014	May 2014	10		\$42,000
6685-01-562-8080	HYGROMETER, DIGITAL	N	Y	Oct 2013	Nov 2013	10		\$600.00
6640-01-537-6898	BOTTLE, SCREW CAP	N	Y	Jan 2014	Apr 2014	150		\$300.00



Biological Integrated Detection System (BIDS)



Purpose/Use:

The BIDS consists of a shelter (mounted on a dedicated vehicle) and equipped with a biological detection suite employing complementary technologies to detect large area biological attacks.





STRYKER Nuclear, Biological, and Chemical Reconnaissance Vehicle (NBCRV)



Purpose/Use:

The NBCRV STRYKER is a high mobility, heavy protection and a remote weapon system, customized to incorporate Joint Biological Point Detection System.





Biological Defense



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
4240-01-537-1797	FILTER,PARTICULATE	Y	Y	Jan 2015	May 2015		25	\$200.00
4240-01-549-5840	FILTER,PARTICULATE	Y	Y	Jan 2015	May 2015		80	\$700.00
6640-01-504-1860	TUBE,CENTRIFUGE	Y	Y	Nov 2013	Feb 2014	5500	5500	\$6,800
4720-01-563-0149	HOSE,NONMETALLIC	Y	Y	Dec 2013	Mar 2014	6	20	\$13,000
4710-01-573-5137	INTAKE ASSEMBLY	N	Y	Dec 2013	Mar 2014	7	7	\$62,000
4720-01-543-0983	TUBING ASSY SET	N	N	Dec 2013	Apr 2014	7		\$2,700



Lateral Flow Immunoassays (LFI)



Purpose/Use:

A one-time use, antibody-based LFI test used to presumptively identify Biological Warfare Agents (BWAs)

LFIs are consumable items with a three to five year shelf life. They require refrigeration for maximum shelf life. Systems that use these products are: Individual Hand Held Assay, Hand Held Assay Panels, Joint Biological Point Detection System (JBPD), Joint Portal Shield (JPS), and the Dry Filter Unit (DFU).



Individual Hand Held Assay



DoD Biological Sampling Kit



Carrier Box Assembly



Operational Panel



Biological Defense



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
6665-01-521-7871	PAR CARRIERS (O)	Y	Y	N/A	N/A	300	300	\$7,000,000
6665-01-494-8725	BIO SAMPLING KIT (O)	Y	Y	N/A	N/A	600	600	\$1,000,000
6665-01-559-3857	BIO SAMPLING KIT (U)	Y	Y	N/A	N/A	20	20	\$40,000
6665-01-504-8355	HAND HELD ASSAY PANELS (T)	Y	Y	N/A	N/A	50	50	\$30,000
6665-01-525-7009	CARRIER BOX ASSY	Y	Y	N/A	N/A	100	100	\$2,000,000



Contamination Avoidance



Primary Equipment Support

• Fielded/Sustained:

- Smoke Grenade Launcher (SGL): M257, M259, M243, M250, M239
- M93A1 Fox Nuclear, Biological and Chemical Reconnaissance System
- M4/M4A1 Joint Chemical Agent Detector (JCAD)
- M22 Automatic Chemical Agent Alarm (ACADA)
- Improved Chemical Agent Monitor (ICAM)
- M21 Remote Sensing Chemical Agent Alarm (RSCAAL)
- Diagnostic Test System (DTS)
- M56 Smoke Generator System
- M58 Smoke Generator System

• Transitional/Developmental:

- M4A1 Joint Chemical Agent Detector (JCAD)
- M327 Light Vehicle Obscuration Screening System (LVOSS)
- Dismounted Reconnaissance Set, Kit, or Outfit (DR SKO)



M58



M256A2 Detector Kit



Purpose/Use:

The M256A2 is used to detect Nerve, Blister, and Blood agents in vapor form, plus nerve and blister agents in liquid/solid form. It's replacing the M256A1 by attrition. The kit contains 2 main components: 6 samplers (same M256A1 sampler) and 4 Low Volatility Hazard (LVH) packages.





Joint Chemical Agent Detector (JCAD) M4/M4A1



Purpose/Use:

The JCAD system provides advanced detection and warning, identification of contamination on personnel and equipment, and monitoring for the presence of chemical warfare agent contamination.

Note: Differences between the M4A1 and M4:

- *Improved battery life*
- *Network compatibility*
- *Removal of Toxic Industrial Chemical (TIC) mode (now part of normal detection)*
- *User interface*
- *Cost (slightly lower than the M4)*



M4A1



M4



Contamination Avoidance



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
015637473	DETECTOR KIT,CHEMICAL	Y	Y	Nov 2013	Mar 2014	25,000	25,000	3,800,000
015642644	REFILL KIT,SAMPLER	N	Y	Feb 2014	Jul 2014	4000	7800	490,000
015677295	SIGN KIT, CONTAMINATION	Y	Y	Nov 2013	Mar 2014	500	100	1,500,000
015553120	SIEVE PACK	Y	N	Feb 2014	Mar 2014	3000	4500	300,000
015556126	CONFIDENCE SAMPLE	N	Y	Feb 2014	Jun 2014	400	500	50,000
015574010	COMMS ADAPTER	N	N	Mar 2014	Aug 2014	200	500	1,000,000
015574013	INTERFACE KIT, JCAD	N	N	Feb 2014	Jun 2014	100	100	190,000
015868287	TRAY, BATTERY	N	N	Feb 2014	Jun 2014	10	10	1,000



Collective Protection



Primary Equipment Supported

- Major End Items:

- Chemical Biological Protected Systems (CBPS) M8
- M20A1 Simplified Collective Protection Equipment (SCPE)
- Chemically Protected Deployable Medical System (CP DEPMEDs)



- Secondary Items:

- Modular Collective Protection Equipment (MCPE)
- Control Modules (Compartment, System, Power Dist Unit, Static Frequency)
- Protective Entrances (M10, M12-16, M18, M20)
- Installation Kits (M262, M263, M265, M277)
- Filter Fan Assemblies (FFAs) (400-100-500)
- Gas Particulate Filter Units (M56, M59, M84, M87, M93, M95, M96)
- Filters (M12A2, M13, M18A1, M19, M23, M48A1, M49, M98)



- Transitional:

- Chemical Biological Protected Systems (CBPS) M8E1
- Joint Expeditionary Collective Protection (JECPC)



M48A1 Gas Particulate Filter (GPF)



Purpose/Use:

The M48A1 GPF 100 CFM filter contains a High Efficiency Particulate Absorption(HEPA) filter and gas (ASZM-TEDA) filter. The HEPA filter is a pleated media filter for removing solid and aerosol CBRN containments. The gas filter contains impregnated carbon for removing chemical warfare gases.



M48A1

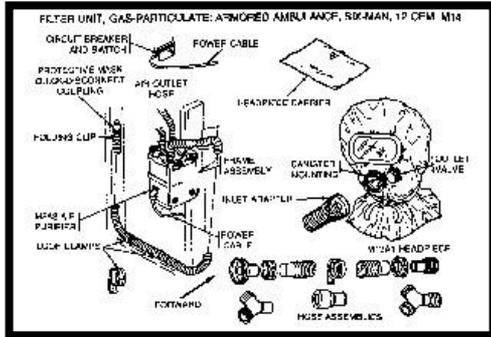


M13A1 & M14 Gas Particulate Filter Unit (GPFU)



Purpose/Use:

The M13A1 and M14 GPFU supplies filtered air via hoses to crew's protective masks, providing those individuals with protection against CBRN agents. These GPFUs are primarily used in tanks and armored vehicles.



M14 GPFU

Components of GPFUs:

- M1A1-19 Precleaner
- M2A2 Air Purifier
- M3 Heater
- M18A1 Gas Filter
- M13A1 Hospital Headpiece
- Hoses and connectors



M13A1 GPFU



Collective Protection Equipment



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Unit Price	Estimated Forecast	Projected Amount
4240-01-369-6533	M98 Gas Particulate Filter Set	Y	Y			\$1,300	30,000	\$39,000,000
4240-01-550-5226	M98 Gas Filter	Y	Y			\$1,000	7,000	\$7,000,000
4240-00-807-6856	M3 Heater	N	Y	Dec-13	Mar-14	\$255	25,000	\$6,375,000
4230-01-579-1957	Fan Filter Housing Assy	N	Y	Sep-13	Feb-14	\$15,200	300	\$4,560,000
4240-01-363-1311	M48A1 Gas Particulate Filter	N	N	Sep-13	Jan-14	\$1,060	4,000	\$4,240,000
4240-00-868-7906	M2A2 Air Purifier	N	Y	Dec-13	Feb-14	\$1,120	1,500	\$1,680,000
4240-00-807-6858	M1A1 Housing and Pre-Cleaner	N	Y	Dec-13	Feb-14	\$810	2,000	\$1,620,000
4240-00-010-5267	M14 Gas Particulate Filter Unit	N	Y	Dec-13	Feb-14	\$2,700	500	\$1,350,000
4240-01-312-9146	M49 Gas Filter Trays (5/pkg)	Y	Y			\$12,500	100	\$1,250,000



Collective Protection Equipment



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Unit Price	Estimated Forecast	Projected Amount
4240-01-332-2068	Filter Element, Gas, Recirculation	Y	Y			\$550	1,000	\$550,000
4240-00-763-2464	M13A1 Hospital Headpiece Assy	N	Y	Jan 2014	Mar 2014	\$100	5,000	\$500,000
4240-01-615-1867	M93 Gas Particulate Filter Unit	N	Y	N/A	N/A	\$18,800	25	\$470,000
4240-01-068-8645	Power Distribution Unit	N	Y	Nov 2013	Jan 2014	\$14,250	30	\$427,500
4240-01-363-1310	M23 Gas Filter	Y	Y	Sep 2013	Jan 2014	\$2,000	200	\$400,000
4240-01-234-8170	Centrifugal Fan	Y	Y			\$10,700	20	\$214,000
4240-00-802-5169	M24 Particulate Filter	Y	Y			\$380	300	\$114,000



Decontamination



Primary Support Equipment

- Major End Items:

- M12A1 Diesel Engine Driven System
- M26 Joint Service Transportable Decontamination System
- M17A3 Decontamination System (currently undergoing obso)
- M37 Riot Control Dispenser, used by Military Police to engage
- non-lethal action against crowds/riots/prisoners

- Secondary Items:

- M295 Immediate Equipment Decontamination Kit
- M100 Sorbent Decon System for vehicles
- Reactive Skin Decontamination Lotion™
- Obsolete M291 Skin Decontamination Kit.

- The Decontamination Team provides logistical and technical support to fuel powered decontamination systems (pressure washers), and immediate personnel and equipment decontamination kits (sorbent powders).





M295 Decontamination Kit



Purpose/Use:

The M295 allows decontamination of soldiers individual equipment through physical removal and absorption of chemical agents. Decontamination is accomplished by application of a decontamination powder contained in the applicator mitt. The mitt contains a highly adsorptive and partially reactive sorbent powder. The M295 IEDK allows soldiers to decontaminate their individual equipment (helmet, rifle, gloves, etc).





Decontamination



NSN	Nomenclature	Existing Contract	Competitive	Issue RFP	Forecast Award	Estimated FY14 Quantity	Estimated FY15 Quantity	Projected Amount
6850-01-357-8456	M295 Decontamination Kit	N	Y	TBD	TBD	400,000	400,000	\$6,200,000



Projected Totals FY14-17



Decontamination	\$	31M
Contamination Avoidance	\$	24M
Collective Protection	\$	149M
Individual Protection	\$	93M
Biological Detection	\$	34M
TOTAL	\$	331M