

# ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Edgewood Chemical Biological Center  
Mr. Michael Abaie  
Director, Engineering Directorate  
5 November 2015

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

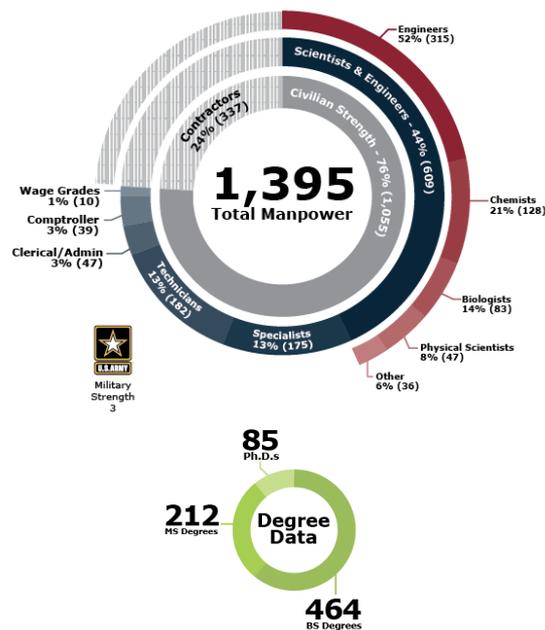


# ECBC AT A GLANCE

## Specialized Workforce

### Total Manpower: 1,395 Expertise Across Lifecycle

- **Deployable Employees:**
  - 250 field-deployable scientists, engineers, technicians and operators
- **Staff in Personnel Reliability Program (PRP)**
  - 454 staff, 63 dual BPRP and CPRP
- **Total Acquisition Personnel**
  - 500+ total acquisition personnel



## Unique Infrastructure

### Chemical Transfer Facility

Only U.S.-declared Single Small Scale Facility under the Chemical Weapons Convention.



### McNamara Life Sciences Research Facility



Uniquely designed for cutting edge research, toxicological testing, genomics and proteomics, accompanied by a BSL-3 laboratory environment.

### Advanced Chemistry Laboratory

Features advanced toxic agent laboratories, environmental chambers and secure work spaces for classified material.



1.22M ft<sup>2</sup> Laboratory Space  
66 BSL-2 and 2 BSL-3 Laboratories  
317 Chemical Surety Hoods  
3 Explosive Test Chambers  
Several Outdoor Ranges  
Forensic Analytical Capabilities

## Technical Competencies

Science and Technology for Emerging Threats

CB Agent Handling and Surety

CBRNE Material Acquisition

CBRNE Analysis and Testing

Chemistry and Biological Sciences

CB Munitions and Field Operations



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**RDECOM**

# ECBC SENIOR LEADERSHIP

Associate Director  
**Adam Seiple**



Associate Director  
**Michelle Goddard**



ECBC Director  
**Joseph Corriveau, Ph. D.**

Safety Director  
**George Collins**



Military Deputy  
**COL Debra Daniels**



Senior Enlisted  
Advisor to  
the Director  
**SGM Jamison  
Johnson**



Senior Research Scientist:  
Chemistry  
**Augustus Way  
Fountain, Ph.D.**



Research & Technology  
Acting Director  
**Peter Emanuel, Ph.D.**  
Critical Facilities: 14



Program Integration  
Acting Director  
**George Collins**  
Critical Facilities: 12



Engineering  
Director  
**Michael Abaie**  
Critical Facilities: 21



# ECBC LIFECYCLE

**Mission:** Be the Nation's premier provider of innovative chemical and biological solutions.

**Research &  
Technology**

**Engineering**

**Operations &  
Integration**

**Warfighter Needs**

**Warfighter Solutions**



## Lifecycle CB Solutions

- Inhalation Toxicology
- Aerosol Physics
- Filtration Sciences
- Agent Spectroscopy/Algorithm Development
- Emerging Threats Science & Technology
- CB Concept through Sustainment Solutions
- Lifecycle CB Materiel Acquisition
- Emerging Threats Test & Evaluation
- Full-service CB Testing
- Agent Handling and Surety
- Chemical Munitions Field Operations
- WMD Elimination



# OPPORTUNITY

## **TITLE: CBARR Mission Support Contract (MSC) 2016 IDIQ Vehicle**

- Small Business Set Aside Single Award IDIQ
- 3-Year Period of Performance
- Covers all aspects of ECBC's Directorate of Product Integration (DPI) mission, to include Operations Support, Research & Technology Support, and Program & Integration Support at ECBC activities
  - Sample collection analysis using Government instrumentation in fixed and mobile laboratories
  - Site inspections at workplaces using chemical agents, biological agents and other hazardous materials
  - Scientific research into the environmental fate, effects, and detection of chemical and biological agents
  - Cost, schedule, and performance management establishment tracking and reporting for various chemical/biological destruction projects

**CONTRACT TYPE: Firm Fixed Price and Cost Plus Fixed Fee**

**CONTRACTING CONTACT: Mr. Greg Jamison, 410-436-2515, Gregory.j.jamison.civ@mail.mil**

**SOLICITATION #: W911SR-16-R-XXXX**

**ESTIMATED SOLICITATION RELEASE DATE: 1QFY16**



# OPPORTUNITY

## **TITLE: ECBC Scientific Services Program (SSP) IDIQ Vehicle**

- Single Award Small Business IDIQ
- 5-Year Period of Performance (POP) for Base Contract; Individual Task Awards limited to 12-Month POPs
- Individual Task Awards not-to-exceed \$1M
- Scope to cover basic mission needs of ECBC
- Purpose to provide short term, immediate solutions to ECBC's contracting needs

**CONTRACT TYPE: Firm Fixed Price and Cost Plus Fixed Fee**

**CONTRACTING CONTACT: Mr. Ted Kunzog, 410-436-2449, Theodore.m.kunzog.civ@mail.mil**

**SOLICITATION #: W911SR-16-R-XXXX**

**ESTIMATED SOLICITATION RELEASE DATE: 3QFY16**



# OPPORTUNITY

## **TITLE: Facility and Logistics (F&L) II**

- Single Award Small Business IDIQ
- 3-Year Period of Performance (POP)
- Scope to cover facilities and logistics needs of ECBC
  - Facilities' upkeep, management, janitorial services, maintenance, limited groundskeeping, logistics, and other associated requirements
  - Provide flexibility to meet ECBC's changing requirements

**CONTRACT TYPE: Firm Fixed Price and Cost Plus Fixed Fee**

**CONTRACTING CONTACT: Ms. Chanel De Silva, 443-861-8741,  
Chanel.d.desilva.civ@mail.mil**

**SOLICITATION #: W91ZLK-16-R-XXXX**

**ESTIMATED SOLICITATION RELEASE DATE: 3QFY16**



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# ON THE HORIZON



# OPPORTUNITY

## **TITLE: Information Technology (IT) Services –**

- To provide support services associated with the DREN, SharePoint Administration, Service Desk, and IT Support necessary for the RDECOM ECBC Community

**CONTRACT TYPE: Cost Plus Fixed Fee**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



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# OPPORTUNITY

## **TITLE: Information Technology (IT) Services –**

- To provide support services associated with Information Assurance and Cyber Security for SharePoint and other IT applications necessary for the RDECOM ECBC IT Community

**CONTRACT TYPE: Time and Materials (T&M)**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE: 2QFY16**



# OPPORTUNITY

## **TITLE: CBARR Monitoring Support**

- To provide OI Analytical equipment and maintenance; e.g., minicam replacement parts, maintenance, etc.

**CONTRACT TYPE: Firm Fixed Price**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE: TBD**



# OPPORTUNITY

## **TITLE: Advanced Design and Manufacturing (ADM) Tier III**

- Obtain support services to perform concept development, animations, engineering design and analysis, rapid prototyping, project management, and manufacturing for the joint chemical biological community
- Support may include limited purchasing and clerical skills necessary to support ECBC's ADM Branch mission

**CONTRACT TYPE: Cost Plus Fixed Fee**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE: 4QFY16**



# OPPORTUNITY

## **TITLE: ECBC Services for Department of Homeland Security Support –**

- To provide various ongoing mission support services, to include research, development, limited acquisition, and logistics support for items and systems supporting the conduct of programs in support of the DHS
- Services are for the application of technology to solve unique mission requirements related to transformation of the U. S. military and the Global War on Terrorism

**CONTRACT TYPE: Cost Plus Fixed Fee**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE: TBD**



# OPPORTUNITY

## **TITLE: BioTechnology Life Cycle Systems Engineering for Department of Homeland Security –**

- To provide various ongoing mission support services relating to the conduct of programs in support of the DHS
- Scope includes all aspects for CBRN and Homeland Defense/Security as it relates to collection and analysis of data; database development and population; modeling and simulation; studies and analyses; basic and applied research and development including laboratory, surety agent, and pathogen work; test and evaluation; testing of components, systems, and subsystems; engineering design; prototyping; technical consulting; training; and conference presentation/support

**CONTRACT TYPE: Cost Plus Fixed Fee**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: TBD**

**ESTIMATED SOLICITATION RELEASE DATE: TBD**



# PROGRAM OVERVIEW

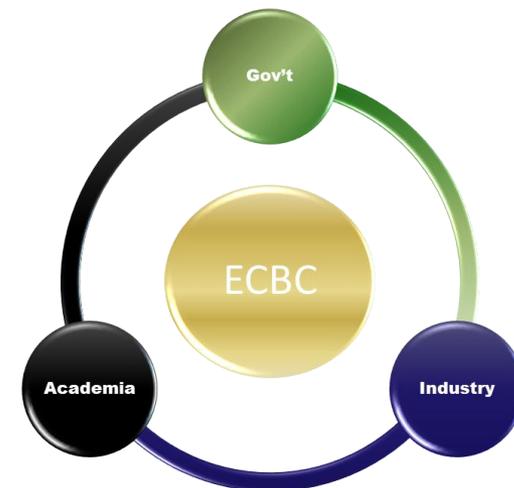
## Technology Transfer

Enables industry, academia and other organizations to leverage ECBC's unique assets: intellectual property portfolio, S&E expertise through R&D and product development collaborations, as well as provision of testing and other services

### Mechanisms include:

- Cooperative Research & Development Agreements (CRADAs)
- Technology Support Agreements (TSAs)
- Patent License Agreements (PLAs)

ECBC POC: [technical.outreach@apega.army.mil](mailto:technical.outreach@apega.army.mil)



# FLEXIBLE TECHNOLOGY TRANSFER AGREEMENT FORMATION

## ECBC Strives to Remain Flexible in Forming Innovative Technology Transfer Partnerships

### Opportunities:

#### Additive Manufacturing Research and Development

To improve accessibility of additive manufacturing equipment & expertise at ECBC and foster growth of additive manufacturing capability within northeast Maryland

### Examples:

- Colorimetric Detector (US Patent 9,023,291)
- Filtration Media for removal of hazardous materials from air streams (US Patent 8,877,677)

Over 130 available: [http://www.ecbc.army.mil/about/featured\\_tech.html](http://www.ecbc.army.mil/about/featured_tech.html)



# BROAD AGENCY ANNOUNCEMENT

**Broad Agency Announcement (BAA)** ECBC-15 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.

Technical Topic area(s) include:

- **BioSciences**
- **Aerosol Technology**
- **Biological Point Detection**
- **Chemical Point Detection**
- **Early Warning and Detection**
- **Smoke and Obscurants**
- **Collective Protection**
- **Respiratory Protection**
- **Decontamination**
- **CBRNE Countermeasures**
- **Flame and Incendiary**
- **Explosives Point, Proximal and Standoff Detection**
- **Chemical Forensics**
- **Surface Science**
- **Analytical Toxicology**

The BAA is continually open for submissions

- Please see: <http://www.ecbc.army.mil/about/download/ECBC-BAA-July-2015.pdf>



# OPPORTUNITY

## **TITLE: Rapid Innovation Fund (RIF) BAA Contract Opportunities**

- Designed to fund programs that facilitate the rapid insertion of innovative technologies into military systems or programs that meet critical national security needs
- For more information, see <http://www.dodrif.com>

**CONTRACT TYPE: Firm Fixed Price or Cost Plus Fixed Fee**

**CONTRACTING CONTACT: TBD**

**SOLICITATION #: Posted at FedBizOpps**

**ESTIMATED SOLICITATION RELEASE DATE: Topics released Mar-Jun 2016**



# PROGRAM OVERVIEW

- **Army Small Business Innovation Research (SBIR)**
- **Chemical Biological Defense (CBD) SBIR**
- **Army Small Business Technology Transfer (STTR)**

Programs consist of three phases:

- Phase I – Proof-of-Concept/Feasibility Study
  - SBIR:
    - Maximum dollar amount: \$100K.
    - Phase I Option (**must** be proposed as part of the Phase I proposal), Cost <\$50K
      - CBD SBIR, covers activities up to three months
      - Army SBIR, covers activities up to four months at a cost not to exceed \$50,000
  - STTR:
    - Do not exceed \$150K in total costs for 6 months
    - No Phase I Option
- Phase II - Two-Year Development
- Phase III – Commercialization, either private or government (involves non-SBIR funding)

Small business < 500 employees. Proposal selections via competitive, merit-based procedures

For more information, see:

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



# SBIR/STTR OPPORTUNITIES

Posted at <https://SBIR.defensebusiness.org>

Pre-solicitation Opens 11 December 2015

Topics include:

- High Conductivity Carbon Microfibers for Infrared Obscuration
- Portable Ultraviolet Raman Imaging Spectrometer for Explosives Detection
- Man-Portable and Fieldable Mass Spectrometer for Sequencing Peptides
- Smartphone Application for Mask Sizing and Fitting



# PROGRAM OVERVIEW

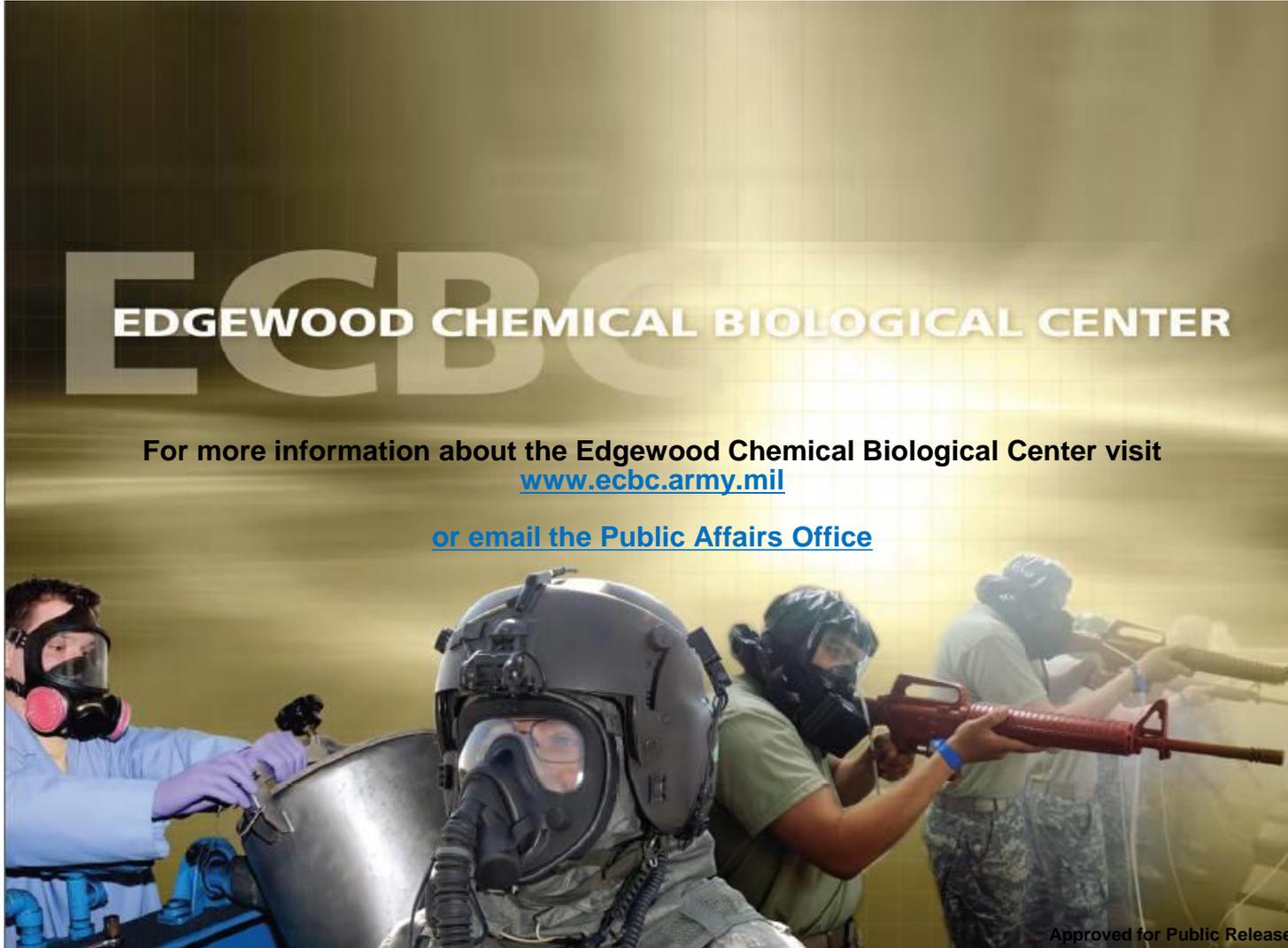
## What to watch for...

### CBRNE MSC IDIQ has expired

- No plans for a follow-on
- Will use other mechanisms in place throughout the local APG community, as well as ACC offsite, GSA, and other agencies
  - ARO SSP
  - HDIAC and HD TAT
  - DSIAC and DS TAT
  - GSA OASIS
  - OPETS
- Will also use individual contract mechanisms
- Market Research and individual contract vehicle rules dictate use of Small Business, Small Disadvantaged Business, and other Socio-Economically designated businesses



# TECHNOLOGY DRIVEN WARFIGHTER FOCUSED



**EDGEWOOD CHEMICAL BIOLOGICAL CENTER**

For more information about the Edgewood Chemical Biological Center visit  
[www.ecbc.army.mil](http://www.ecbc.army.mil)

[or email the Public Affairs Office](#)

Approved for Public Release

