

ABERDEEN PROVING GROUND ADVANCED PLANNING BRIEFING TO INDUSTRY

Edgewood Chemical Biological Center

Presented by: Mr. Michael Abaie, Director, Engineering Directorate

5 Nov 2015

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



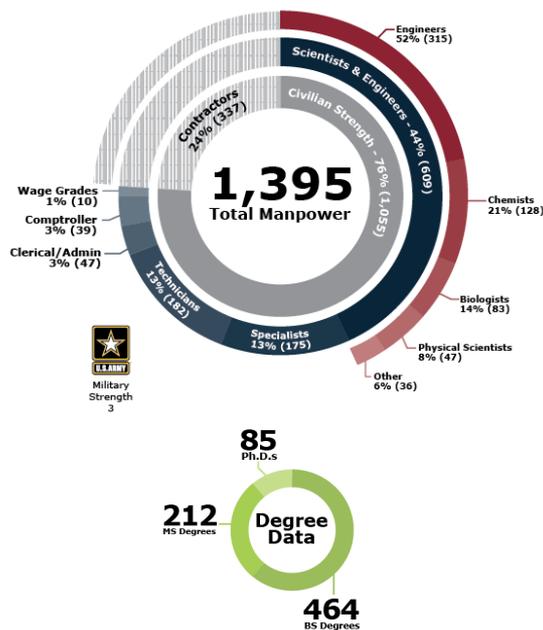
APPROVED FOR PUBLIC RELEASE

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 ft² 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

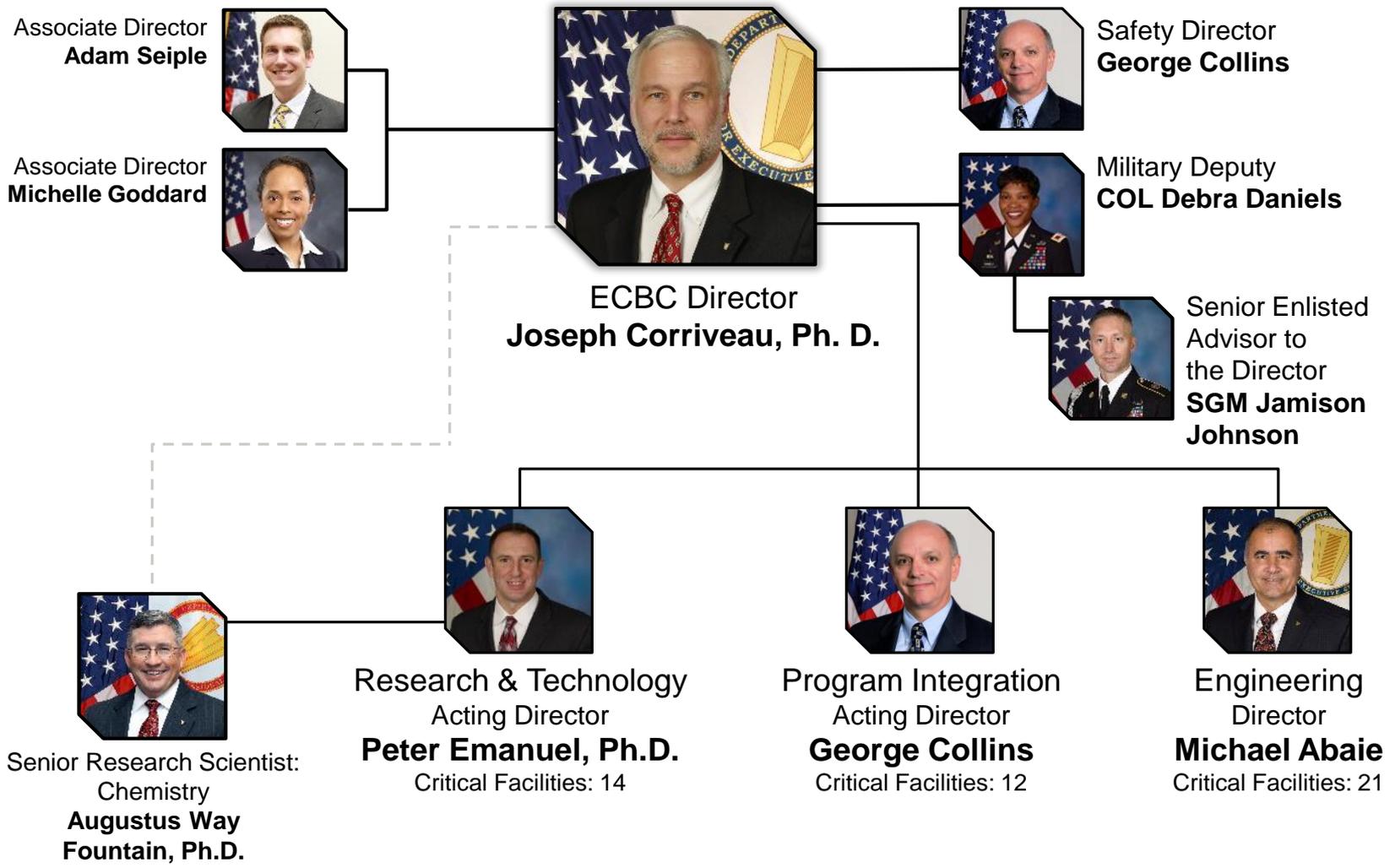
CB Munitions and Field Operations



APPROVED FOR PUBLIC RELEASE



ECBC SENIOR LEADERSHIP



APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



ON THE HORIZON

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



PROGRAM OVERVIEW

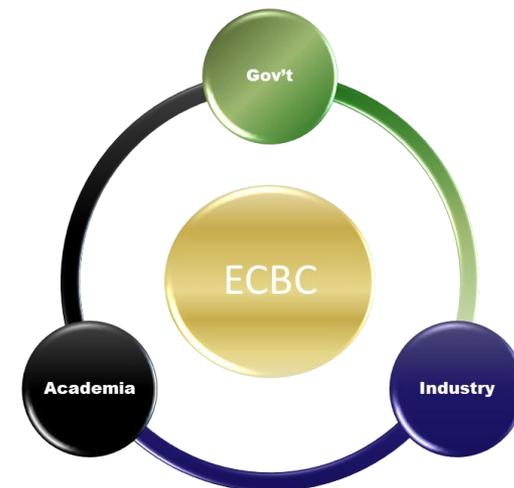
Technology Transfer

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



APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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>

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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/>

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



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

APPROVED FOR PUBLIC RELEASE



**TECHNOLOGY DRIVEN
WARFIGHTER FOCUSED**

ECBC

EDGEWOOD CHEMICAL BIOLOGICAL CENTER

For more information about the Edgewood Chemical Biological Center visit
www.ecbc.army.mil

[or email the Public Affairs Office](#)



Approved for Public Release

