

DTRA J9CB / JSTO

“Investing in transformational ideas, innovative people, and actionable technology development for Chemical and Biological Defense solutions”

Dr. Ron Hann

Director

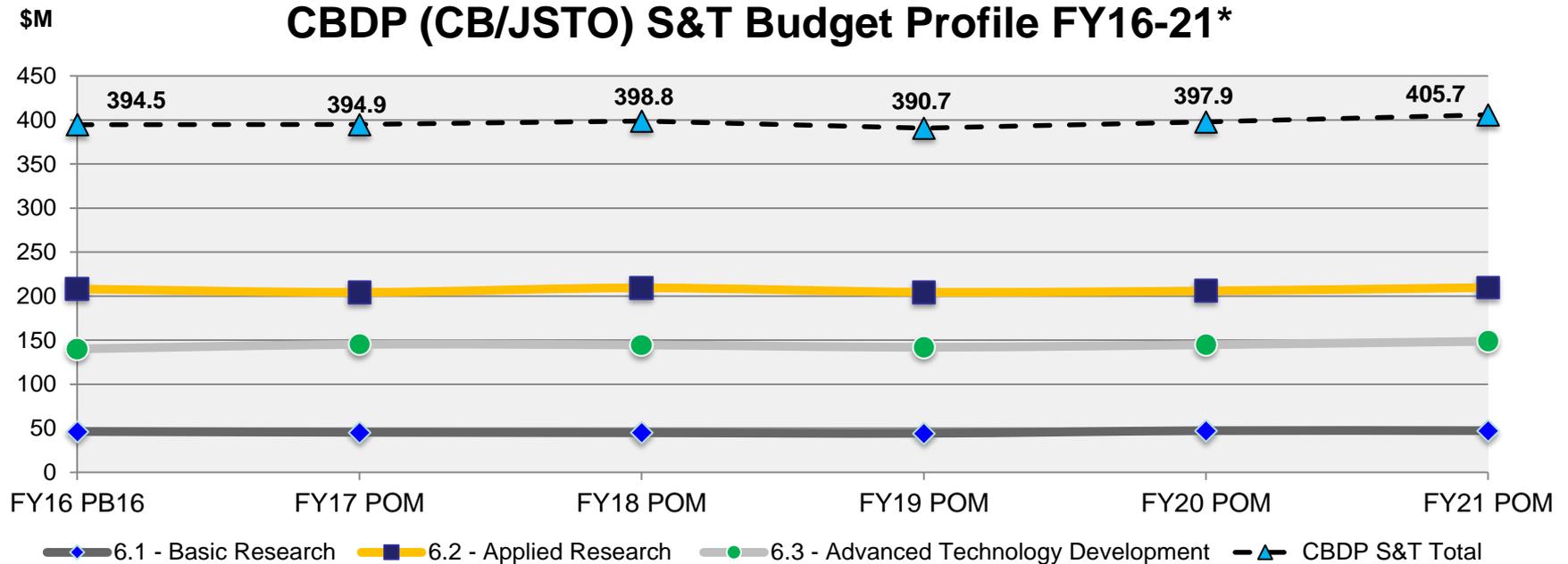
***Chemical and Biological Technologies
Department (J9-CB)***

Defense Threat Reduction Agency (DTRA)





Budget “Fact of Life” Changes



- FY16 DOD Appropriation bolstered BA1 (Basic Research) funding while reducing BA2 (Applied Research); managing program risk accordingly
- Bipartisan Budget Act of 2015 likely to effect FY17 CBDP topline

*FY16 President's Budget request



JSTO/JPEO Medical Initiatives

- Cultural change in medical countermeasure (MCM) development
- JSTO/JPEO team approach throughout MCM development process
- Technical/regulatory emphasis vice acquisition system
- Big PHARMA best practices



Wearable CB Exposure Monitor

Goal: A suite of wear-and-forget sensors to provide warning of threat exposure prior to acute symptoms

S&T Objective

- Gain warning of threat exposure prior to onset of mission disruptive symptoms
- Stop relying/waiting on sickness to present itself

Result to the Warfighter

- Deploy drugs sooner, save lives, complete mission
- Potentially change tactics/operations



individualized persistent *ubiquitous* *population informatics*



clinical



tactical

“Check Engine Light” functionality:

Not a specific diagnostic, but rather a cue for reflexive testing, provide trigger not confirmation

Move awareness of exposure to the left, giving the clinician more time and information

Program Overview: Doing Business with DTRA



- Broad Agency Announcements (BAA)
 - Grants
 - Contracts
- Small Business Innovation Research (SBIR)
- Small Business Technology Transfer (STTR)
- Requests for Proposals (RFP) / Contracts
- CWMD Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract

Basic Research BAA Solicitation: HDTRA1-11-16-BRCWMD-BAA



- In effect March 2011-September 2016; posted at Grants.gov
- TRL1 and early 2; Basic (6.1) research
- Multiple and consecutive opening & closing periods
 - - AT LEAST one annual opportunity solicited by an Amendment to the BAA; usually posted to Grants.gov in early December
- All applications MUST be submitted to www.grants.gov using the application packages posted with the opportunity
- Resulting awards will be grants only
- Four categories of awards: Single Scope; Multidisciplinary; Young Investigator; Seed Awards
- Questions? Email: dtra.belvoir.J9.mbx.HDTRA1-BRCWMD-A@mail.mil



Fundamental Research BAA Solicitation: HDTRA1-14-24-FRCWMD-BAA

- In effect March 2015-September 2024; posted at Grants.gov
- TRL1, 2, 3, and ~early 4; Basic and exploratory Applied Research (6.1 & 6.2)
- Applications **MUST** be submitted to Grants.gov using the application packages posted with the opportunity
- Majority of resulting awards will be grants; other award types are permissible
- BAA continuously OPEN for good ideas
 - HOWEVER – interested parties must first send e-mail (200 word max) to Thrust Area Email detailed in BAA
 - Based on interest, a White Paper may be accepted
- Questions? Email: dtra.belvoir.J9.mbx.HDTRA1-FRCWMD-A@mail.mil



Chem-Bio Technologies BAA Solicitation: HDTRA1-14-CHEM-BIO-BAA

Chemical Biological Technologies Department BAA, FY2014 – FY2016 Program Build

Applied Research & Advanced Technology Development

- Seeks R&D projects with strong technical merit valuable to program requirements and goals to improve military chemical and biological defense capabilities
- **Closed for new topics, expect new Chemical Biological Technologies Department BAA, FY2017 – FY2021 Program Build in summer timeframe**
- Parallel DoD/Government 'Service Call' for Government Labs
- Questions? Email: dtra.belvoir.J9.mbx.CB-FY14-16-BAA@mail.mil

R&D Innovation and Systems Engineering Office, Science and Technology New Initiatives BAA Solicitation: HDTRA1-11-16-RDIS-BAA



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

- BAA continuously OPEN for innovative technologies; Phase I (Quad Chart/2-page White Paper) submissions may be made at any time
- TRL2 thru TRL5
- Five Topic Areas (Chemical/Biological; Counter WMD; Radiation/Nuclear; Reachback and Decision Support; and Treaty Verification and Compliance)
- Questions? Email: dtra.belvoir.J9.mbx.RDIS-11-16-BAA@mail.mil
- Expect new BAA Mar/Apr timeframe

CWMD RD IDIQ Contracts

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



- Capability to conduct research and development resulting in the delivery of data, hardware, software, equipment and documentation for 11 functional areas:
 1. Counter WMD Weapons and Targets
 2. Modeling and Simulation
 3. Systems Engineering
 4. Systems Survivability
 5. WMD Physical Countermeasures
 6. WMD Medical Countermeasures
 7. Technical Nuclear Forensics
 8. Nuclear Detection
 9. Standoff Detection
 10. Treaty and Verification Technologies
 11. Sensor Platforms



CBD SBIR and STTR

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

- Congressionally-mandated programs
- Established to fund R&D at small businesses
- Three-phased process
- Funded as a set-aside assessment of extramural R&D budget
- U.S. Small Business Administration (SBA) programmatic authority over federal SBIR & STTR programs (Program Policy Directives)
- DoD has 12 SBIR/STTR Programs ('components')
 - DTRA and Chem/Bio Defense (CBD) represent two separate programs; see: <https://sbir.defensebusiness.org>



DoD SBIR/STTR Solicitations

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

- A DoD Agency-wide announcement includes:
 - DoD Instructions
 - Service/Component-specific Instructions
 - Topics

Solicitation Schedule – FY16

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



Proposal submission

- Basic Research (Solicitation HDTRA1-11-16-BRCWMD-BAA) and Fundamental Research (Solicitation HDTRA1-14-24-FRCWMD-BAA) submitted to:
 - <http://www.grants.gov>
- Chem-Bio Technologies BAA (Solicitation #HDTRA1-14-CHEM-BIO-BAA) and the R&D Innovation and Systems Engineering Office, Science and Technology New Initiatives BAA (Solicitation HDTRA1-11-16-RDIS-BAA) submitted to:
 - <https://www.dtrasubmission.net>
- ALL DoD SBIR & STTR proposals (small businesses only) submitted to:
 - <https://sbir.defensebusiness.org>

Proposals only accepted via electronic submission

READ THE INSTRUCTIONS!



Some Helpful Resources

- Business Opportunities at DTRA:
 - <http://www.dtra.mil/Contracts/BusinessOpportunities.aspx>
- Doing Business with DoD:
 - http://www.defense.gov/landing/contract_resources.aspx
- Guide to DoD Contracting Opportunities:
 - http://www.acq.osd.mil/dpap/cpic/cp/docs/Doing_Business_with_DoD_%282Jun14%29.pdf
- Federal Business Opportunities:
 - <https://www.fbo.gov/>
- Grants:
 - <http://www.grants.gov>
- DoD Office of Small Business Programs – Doing Business with the DoD:
 - <http://www.acq.osd.mil/osbp/sb/dod.shtml>
- DoD SBIR/STTR Program Information for Small Business:
 - <https://sbir.defensebusiness.org>