



DEFENSE THREAT
REDUCTION AGENCY

NDIA 2025 CBRN Defense Conference

Charles Bass, Ph.D., P.E.
*DTRA Chemical and Biological
Technologies Department
Joint Science and Technology Office for
Chemical and Biological Defense*

Deter. Prevent. Prevail.

Approved for public release; distribution is unlimited.



Joint Science and Technology Office for Chemical and Biological Defense



PROTECT

Provides the Joint Force the ability to prevent the effects of chemical and biological hazards.



UNDERSTAND

Provides the Joint Force the ability to positively identify hazards from traditional and emerging chemical and biological threats to understand and improve the timeliness and confidence of information for decision makers.



MITIGATE

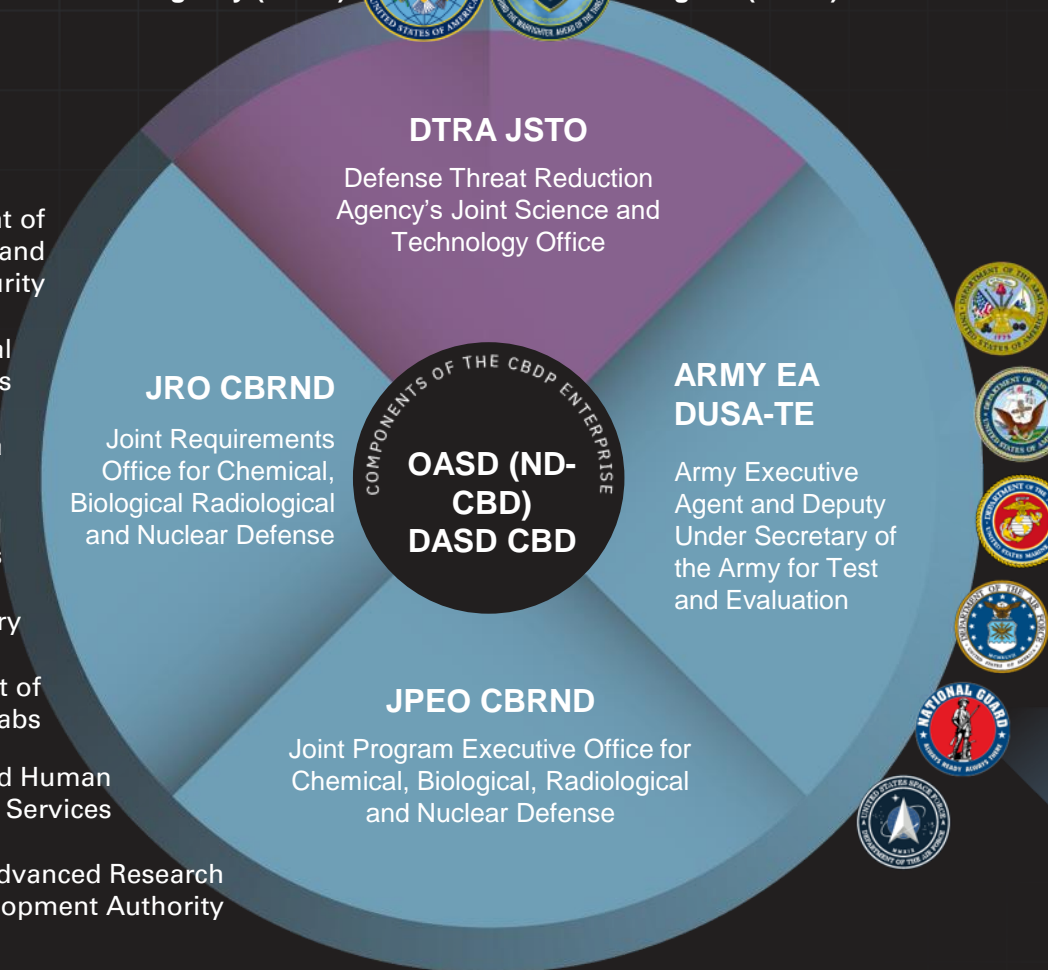
Provides the Joint Force the ability to mitigate, respond, and remediate chemical and biological hazards.

Defense Threat Reduction Agency (DTRA)



Chemical and Biological Defense Program (CBDP)

- Department of Homeland Security
- International Partners
- Academia
- Participating Labs
- Industry
- Department of Defense Labs
- Health and Human Services
- Biomedical Advanced Research and Development Authority





DTRA JSTO

Mission: Deliver S&T Products

DTRA JSTO Mission: Lead DoD science and technology to anticipate, defend and safeguard against chemical and biological threats for the warfighter and the nation.

Deter. Prevent. Prevail.



**Integrated
Early Warning**



**Preparing
for Surprise**



**Integrated
Layered Defense**



DTRA JSTO Leverages OTAs*



MEDICAL CBRN DEFENSE CONSORTIUM (JPEO CBRND)

Focus Areas: Medical pharmaceutical and diagnostic requirements as related to enhancing the mission effectiveness of military personnel (Prevent, Diagnose, Treat)



COUNTERING WEAPONS OF MASS DESTRUCTION (JPEO CBRND)

Focus Areas: R&D of technologies to counter WMD; Detect (sensors, sonar, detectors), Prevent (analytics, detection, readiness), Protect (ocular, percutaneous, respiratory, & material protection)



MEDICAL TECHNOLOGY ENTERPRISE CONSORTIUM (USMRDC)

Focus Areas: Military Infectious Diseases; Combat Casualty Care; Military Operational Medicine; Medical Simulation & Information Science



DEFENSE INNOVATION UNIT (DoD)

Focus Areas: Artificial Intelligence; Autonomy; Cyber; Energy; Human Systems; Space

LEARN MORE!

- **MCDC:** <https://www.medcbrn.org/>
- **CWMD:** <https://www.cwmdconsortium.org/>
- **MTEC:** <https://www.mtec-sc.org/>
- **DIU:** <https://www.diu.mil/work-with-us>
- **C5:** <https://cmgcorp.org/c5/>
- **Tradewind:** <https://www.tradewindai.com/>

NEWS & EVENTS!

- Take advantage of free webinars and Industry Days
- Monitor upcoming solicitations via multiple sources

CONSIDER BECOMING A CONSORTIUM MEMBER

- Most OTAs have a small fee (~\$500) to join

* The list above is not inclusive of all available OTA vehicles; additional vehicles include, but are not limited to, the C5 Consortium, Tradewind, etc.



Broad Area Announcements

FUNDAMENTAL RESEARCH (FR) BROAD AGENCY ANNOUNCEMENT (BAA)

ABOUT

10-year, open solicitation on www.grants.gov (HDTRA1-25-S-0001)

Focused on 'Fundamental Research' defined in TRLs 1-4

Grants will likely be the predominant procurement instrument

Awards may range from exploratory projects with a high risk, innovative approach to comprehensive programs in an interdisciplinary area with potential for high impact to CWMD science

Areas of Interest

General focus area **open 24/7/365** for pre-application white paper submission:



Fundamental Science for CBD

Annual (~Dec) announcement with topic-specific needs related to:



Improved detection and diagnostic capabilities for CB threats



Increased knowledge and capabilities for new or improved medical or material countermeasures



Enhanced personal protection against, modeling of, prevention of, or decontamination of CB threats



Threat agent destruction, neutralization and/or sequestration

Open to

Pre-application white papers and proposals will be considered from the following U.S. and Foreign Institutions:

- Accredited degree-granting colleges, universities, and academic institutions.
- Industrial and commercial entities, including small businesses.
- Not-for-profit entities with a portfolio predominantly in research and foreign government laboratories.

Preference may be given to offerors that demonstrate a significant contribution (≥30% of total value) by one or more universities.



Broad Area Announcements

Chemical/biological (CB) technologies broad agency announcement (BAA)

ABOUT

5-year, solicitation (HDTRA1-22-S-0002)
posted to <https://sam.gov/>

Open, continuous vehicle from June 2022-
2027 with topics released as individual calls
as they become available

Focused on TRLs 3-6

Full range of flexible acquisition vehicles may
result from this BAA, including but not limited
to, contracts, Other Transaction Agreements
(OTAs), and Interagency Agreements (IAs)

Areas of Interest

- ☐ Threat Agent Science
- ☐ Vaccines & Therapeutics
- ☐ Protection & Hazard Mitigation
- ☐ CB Detection Capabilities
- ☐ Medical Diagnostics
- ☐ Information Science

Open to

- Industrial/commercial concerns including small businesses
- Accredited Degree granting colleges and universities
- Not-for-profit organizations
- Other Non-U.S. sources
- DoD-sponsored FFRDCs specified in DFARS 235.017-1
- UARCs, provided that it is permitted by the UARC's DoD sponsor
- DOE-sponsored FFRDCs and NASA-sponsored FFRDCs, if authorization is obtained from the DOE sponsor or NASA sponsor



Engagement Opportunities – Small Business



<https://www.dtra.mil/About/Mission/Research-and-Development/JSTO-SBIR->

www.cbdsbir.net is a gambling site. I updated the link.

Innovative solutions

- Address DoD CBD technology gaps confronting DoD and
- High commercialization potential in the private sector.
- STTR - Requires work with a University, FFRDC, or

Not-for-Profit



Mentor-Protégé Program (MPP)
Growing the Industrial Base

<https://www.dtra.mil/Business/Mentor-Protége-Program/>

- Protégé - Eligible Small Businesses (protégé)
- Mentor - Large businesses
- Goal - Help meet the DTRA mission.



Learn more about DTRA JSTO



DTRA.mil



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@dtrajstoengage



CBD S&T Conference



DTRA JSTO Engagement



@DoDDTRA

The Defense Threat Reduction Agency's Research and Development Directorate serves as the Joint Science and Technology Office for Chemical and Biological Defense, an integral component of the Chemical and Biological Defense Program.