

ENGINEERING DIRECTORATE

The Engineering Directorate operates under the auspices of the Edgewood Chemical Biological Center (ECBC). The Directorate has over 600 people with the main offices located on the Edgewood Area of Aberdeen Proving Ground, MD with additional personnel stationed at Rock Island, IL. Additionally, Engineering Directorate personnel directly support the Joint Project Managers under the Joint Program Executive Office for Chemical and Biological Defense (JPEO-CBD), as well as numerous other government organizations.

Our Engineering Team drives technology transition from research to engineering development and transitions material from engineering development through production, fielding and sustainment. Our highly trained workforce is committed to responsive customer service and is knowledgeable about current and evolving technology and capabilities worldwide. We use our unique infrastructure, engineering expertise and lifecycle services to solve chemical and biological (CB) defense challenges for the Warfighter and Homeland.

MISSION

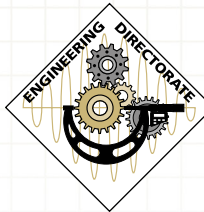
Provide unique infrastructure, engineering expertise and lifecycle services to solve chemical and biological challenges for the Warfighter and the Homeland.

VISION

First Stop for Chemical and Biological Defense Solutions



ECBC is the principal research, development and engineering center for non-medical chemical and biological defense. ECBC is an organizational element of the Army's Research, Development and Engineering Command, which reports to the Army Materiel Command. ECBC develops technology in the areas of detection, protection and decontamination and provides support over the entire materiel lifecycle—from basic research through technology development, engineering design, equipment evaluation, product support, sustainment, field operations and disposal.



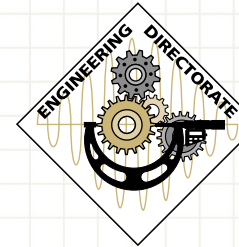
ECBC ENGINEERING
Design→Build→Test→Support

The Edgewood Chemical Biological Center Engineering Directorate is here and available to assist you with Design, Build, Test & Support Solutions for Chemical and Biological Defense Needs.

Please call 410.436.5600 or e-mail ecbc.engineering.directorate@conus.army.mil



<http://www.ecbc.army.mil>



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ECBC ADVANCED TECHNOLOGY DEMONSTRATION BRANCH





ADVANCED TECHNOLOGY DEMONSTRATION (ATD) BRANCH

The ATD Branch is a gateway for technology transition to acquisition program within the Joint Program Executive Office for Chemical Biological Defense (JPEO-CBD). The branch leads a diversified team in advanced development; systems engineering, integration and test; and concepts development for technology initiatives coming out of ECBC and the Defense Threat Reduction Agency Joint Science and Technology Office (DTRA JSTO). The branch achieves its success in conjunction with the JPEO-CBD, Joint Project Managers (JPMs), CoComs and Army, Test and Evaluation Command partners. The branch plans, organizes, directs and controls contractors and other government agencies in systems integration and in technical and operational demonstrations to determine the military utility of emerging technologies for transition of products and technical data to the JPMs and to industry.

MISSION

The ATD Branch's mission is to demonstrate the viability of new technologies for military applications in reconnaissance, detection, decontamination, and to aid in the protection of the Warfighter and U.S. interests against chemical, biological, radiological and nuclear (CBRN) threats. The ATD branch emphasizes customer satisfaction, Warfighter involvement, and technology transitions to JPMs in the JPEO-CBD.

SERVICES

The ATD Branch provides the following services in support of customer requirements:

- Technical management
- Program management
- Configuration management
- Systems engineering & integration
- Test & evaluation support
- Technology readiness assessment support
- Transition support

CURRENT PROGRAMS

The ATD Branch presently manages the following programs for DTRA JSTO:



Rapid Area Sensitive-Site Reconnaissance (RASR) ATD

Develop a man-portable or unmanned ground vehicle mounted detection system capable of rapid detection and identification of multiple chemicals of concern (e.g. traditional and non-traditional agents, precursors, degradation products).



Hazard Mitigation, Materiel and Equipment Restoration (HaMMER) ATD

Support the Warfighter by demonstrating an integrated system of decontaminants, coatings, agent disclosure technologies, applicators, and processes that provide a means to mitigate the hazards associated with current and emerging threats to operationally relevant levels.



PREVIOUS EFFORTS - TRANSITIONED



CBRN Unmanned Ground Reconnaissance Advanced Concept Technology Demonstration

Transitioned technical data and systems to JPM Nuclear Biological Chemical Contamination Avoidance (NBC CA), Navy Explosive Ordnance Disposal Technical Division, Future Combat Systems Small Unmanned Ground Vehicle (UGV), Joint Product Manager Consequence Management, and industry.

Supported U.S. Army Pacific customers with CBRN UGV systems for Operation Tomodachi in Tokyo, Japan, April 2011.



CBRN Package for Unmanned Ground Vehicles - Project for the Joint Ground Robotics Enterprise

Transitioned technical data and reports to the JGRE. Provided detection system hardware to both Air Force Research Laboratory and DTRA JSTO in support of the RASR ATD.



Automated Detailed Equipment Decontamination for Land Vehicles (Auto Decon) ATD

Transitioned the Process Evaluation Tool, technical data, and reports to JPM Protection.



Military Applications in Reconnaissance/Surveillance for Joint Force Protection (MARS JFP) ATD

Transitioned technical data and reports to U.S. European Command, JPM NBC CA, JPM Biological Defense, JPM Information Systems, and JPM Guardian.

Demonstrating the technologies of the Warfighter's Future.