

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 materiel 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 life-cycle services to solve chemical and biological (CB) defense challenges for the Warfighter and Homeland.**

## DESIGN

### Designing solutions to meet CB Defense mission needs.

ECBC Engineers design products to protect the Warfighter and First Responders. The Advanced Design and Manufacturing Facility provides customers with design, analysis, and prototyping services. Our facilities and personnel are dedicated to the cradle-to-grave development and support of CB defense products. ECBC Engineering personnel design for life-cycle engineering support, ensuring the accuracy of technical data (drawings, specifications and technical manuals). In addition, Engineering personnel redesign fielded items to meet new technical and operational challenges. Integrated design teams address all aspects of systems engineering to include maintainability, reliability, and supportability.



## BUILD

### Building solutions to meet CB Defense mission needs.

ECBC Engineering personnel have the capability to take the design to the next level via rapid prototyping and manufacturing. Designers use prototypes to obtain human factors input, complete initial design validations, and capture limited test data. Initial prototypes give the user a tangible product to evaluate form, fit and function for feedback to the design. Developmental items are manufactured for test purposes to determine product performance when compared with user requirements. Engineering manufacturing expertise also provides feedback to the designers to ensure items can be manufactured and supported in a cost effective manner. These constant feedback loops enable design maturation and continuous product improvement.



## TEST

### Testing solutions to meet CB Defense mission needs.

ECBC Engineering has the expertise and infrastructure to test product performance in surety and non-surety environments. Engineering's unique chemical agent facilities and highly skilled personnel test products against a variety of dangerous and toxic compounds. Engineering conducts non-surety product testing in accordance with MIL-STD and ASTM standards. Representative test environments are created to allow user interface for the purposes of logistics demonstrations, human factors evaluations, and proper



equipment employment. Engineering offers a full range of test services for non-Department of Defense entities under test service agreements (TSA). These TSAs can be used to evaluate commercial and military equipment. Results from tests are provided to the design team for continuous product improvement.

## SUPPORT

### Supporting solutions to meet CB Defense mission needs.

ECBC Engineering products and services are designed to meet customer needs for the duration of the mission. Engineering maintains a cadre of trained acquisition professionals to support JPEO current and future needs via matrixed support to Joint Project Managers. Programs are tailored, designed, and executed to rapidly meet urgent CB defense challenges. Engineering provides life-cycle support to continuously maintain item readiness and address ongoing user concerns through the Chemical Biological Radiological Nuclear Hotline. Information gathered from these activities is synthesized to identify and implement product improvements to fielded systems.



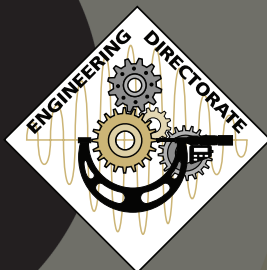
## MISSION

Provide unique infrastructure, engineering expertise and life-cycle services to solve Chemical and Biological challenges for the Warfighter and the Homeland.

## VISION

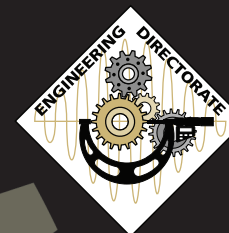
First Stop for Chemical and Biological Defense Solutions

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.



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](mailto:ecbc.engineering.directorate@conus.army.mil)



**ECBC ENGINEERING**  
Design→Build→Test→Support

# The Source of Choice for Chemical Biological Defense Solutions



PUBLIC RELEASE



**RDECOM**