



ECBC ENGINEERING
Design→Build→Test→Support

ECBC ENGINEERING PRODUCT DEVELOPMENT FACILITY ADVANCED DESIGN AND MANUFACTURING INTEGRATED RAPID PRODUCT DEVELOPMENT

Mission Statement: Use integrated design, engineering and manufacturing to get the right technology to the right place, at the right time.



The Edgewood Chemical Biological Center (ECBC) Engineering Directorate Advanced Design and Manufacturing (ADM)'s integrated rapid product development allows ECBC to provide customers with design and manufacturing services using state-of-the-art equipment and sound engineering principles. ADM maintains the latest technologies and qualified personnel to rapidly execute complex projects, covering all aspects of

interdisciplinary design and development. Fully integrated with extensive manufacturing capabilities, ADM provides rapid response concept-to-product total solutions.



ADM's concept through product process allows efficient optimization of design, performance, manufacturability and cost. Products are no longer developed in a step by step process. Now, better products can be manufactured more quickly and inexpensively by concurrently using design, analysis and prototyping. ADM provides the tools and services needed to implement and optimize this process.



ADM acts as a service bureau to support product teams in the Armed

Forces and private industry, through Cooperative Research and Development Agreements (CRADA). ADM is heavily relied upon

and particularly active in times of international conflict, such as during Operation Iraqi Freedom. Customers are provided with engineering designs, drawings, functional prototypes and deployable items.

The division supports military missions by developing products needed on short notice. Through CRADAs, non-government partners can take advantage of this capability to develop complex items with very rapid cycle time. ADM specialists can predict product attributes and performance early in the development process and recommend the most appropriate design, integration, and production choices. After analyzing an existing model, engineers can proactively identify and correct problems. ADM also assists defense contractors with optimization of product designs and resolution of development and production issues.

Features

- Focused network of organic and commercial partners
- Organized structure for rapid response ramp-up as required
- Lifecycle support for custom low-density items
- Integrated concept-to-product development

Capabilities

- 10 Teams providing an array of engineering and manufacturing services
- 140 Engineers, scientists and technicians

Facilities Description

- 150,000 Square Foot Facility
- Unmanned Robotic Unmanned Aerial Vehicle (UAV)/ Unmanned Ground Vehicle (UGV) Integration Laboratory
- Rapid Technologies Laboratory

Software and Hardware

- Full Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) software and hardware integration
- Additive Manufacturing and 3D Data Capture



For more information, please call 410.436.5542 or e-mail ecbc-adm@conus.army.mil



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