

Burlington Technology Center

capabilities



General Dynamics Armament and Technical Products' (GDATP) Burlington Technology Center, located in Burlington, Vermont offers capabilities to improve technological offerings in existing markets and quickly expand into fast-growing business areas. Improvements to laboratory and development space have enabled growth in electro-mechanical engineering, software development, data collection and processing, environmental test facilities, electronic and systems-level testing, and full system prototype testing.

The technology center campus encompasses four sites, including the Lakeside office building, a 13,500-square-foot Engineering Development Lab, the Systems Modernization Initiative office, and an expansive test facility.

The Burlington Technology Center was a recipient of the 2007 James S. Cogswell Outstanding Industrial Security Achievement Award. The facility offers electro-mechanical engineering, software development, data collection and processing, environmental test facilities, electronic and systems-level testing, and full system prototype testing.

Systems Engineering

- Requirements Definition
- System Architecture and Design
- Product and Systems Safety
- Human Factors Engineering
- Reliability and Maintainability
- Integrated Logistics
- P-Spec Compliance
- Verification / Validation

Testing and Evaluation

- Environmental:
 - + Vibration
 - + Load – stress, strain, compression, tension
 - + Thermal
 - + Humidity
- RF – Anechoic Chamber
 - + Antenna characterization
 - + Performance evaluation
 - + Mil-Std-461 EMI testing
- Test firing range

Product Design and Analysis

- Mechanical Design
 - + Aircraft gun systems
 - + Individual and Crew served weapon systems
 - + Material movement systems
 - + Environmental packaging
 - + Vehicle Installation Kits
- Analysis Tools
 - + SDRC Ideas and Ansys mechanical analysis
 - + ADAMS Multi-body dynamics
 - + LS Dyna structural dynamics
 - + FEKO RF propagation
- RF Design and Integration
 - + Electronic Countermeasures
 - + Unmanned Aerial Vehicles
- Sensor and Electronics Packaging
 - + IED Detection sensor fusion
 - + Altium board layout tool
- System Platform Integration
 - + Air, ground and sea platforms
 - + Wide range of weapons and electronics systems
- FDM Rapid Prototype Machine
- Process Automation / Machine Design

Product and Program Logistics / Sustainment

- Training
- In-theater FSRs
- CONUS / OCONUS repair

Program Management

- Urgent Need Programs
 - + Speed to Market
 - + Supplier Network
- EVM
- TAA/ITAR Support

GENERAL DYNAMICS

Armament and Technical Products

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