

ABERDEEN TEST CENTER (ATC)

ABERDEEN PROVING GROUND, MD

Mission: We test to ensure systems are lethal, reliable, survivable, interoperable and safe.



CORE COMPETENCIES

GROUND COMBAT

- Manned, Unmanned, Robotic and Autonomous Vehicles
- Fire Control Systems
- Active Protection Systems
- Signature Measurements
- Power Generation
- Transportability

LETHALITY

- Small, Medium and Large Caliber Weapons and Ammunition
- Direct Fire Gun Tube Proofing
- Vehicle and Maritime Vulnerability

SOLDIER SURVIVABILITY

- Body Armor, Bomb Suits, Helmets and Eyewear
- Human Factors Engineering
- Title 10 Live Fire Testing

VIRTUAL & SIMULATED

- Secure Distributed Testing
- Hardware in the Loop
- Software Test and Analysis
- Live, Virtual, Constructive
- Non-Kinetic Threat Vulnerability

EFFICIENCY

- Deployable Instrumentation
- Automated Analysis and Reporting
- ATEC Data Mesh Connected



UNIQUE CAPABILITIES

AUTONOMOUS SYSTEMS TEST CAPABILITY

Software and hardware integration environment to stress autonomous decision making with digital twins of vehicles, vehicle sensors and terrain.

ACCELERATED VEHICLE DURABILITY TESTING

Reducing live testing with vehicle chassis and drive train simulator supporting vehicles up to 5 axles.

ANECHOIC CHAMBER WITH VEHICLE DYNAMOMETER

One-of-a-kind anechoic chamber with integrated dynamometer supporting wheeled military vehicles under full engine load.

PRECISION TEST TRACKS AND RANGES

Over 60 firing ranges and 50 miles of test tracks replicating worldwide terrain, including cross country, hilly, clay, gravel, Belgium block, paved, sand, mud, vertical walls, washboards, bump courses, fording basins, and a corrosion facility.

WORLDWIDE CLIMATE

Outdoor laboratories replicate 80% of the world's climate in the span of a year. Simulated capabilities are available to test the rest.

BACKGROUND

Since 1917, the U.S. Army Aberdeen Test Center has served as the Department of War's premier test center for land combat. From prototype development to production and fielding, system developers have relied on ATC as their partner to help them refine designs for ground vehicles (manned, unmanned, robotic, and autonomous), direct fire weapons and ammunition, soldier systems, power generation, and engineering and support equipment. With 66,000 acres of restricted land, air, and water range space, our indoor and outdoor laboratories are used to measure system performance, reliability, congressionally mandated live fire testing, transportability, and signature testing and ensure worldwide success.



ATC is a Department of War Major Range and Test Facility Base (MRTFB) staffed with over 1,400 civilians, military, and contractor employees. Over 70% of these employees have backgrounds in scientific, engineering, and technology and have decades of experience in testing military systems.

APPROVED FOR PUBLIC RELEASE

U.S. ARMY TEST AND EVALUATION COMMAND