

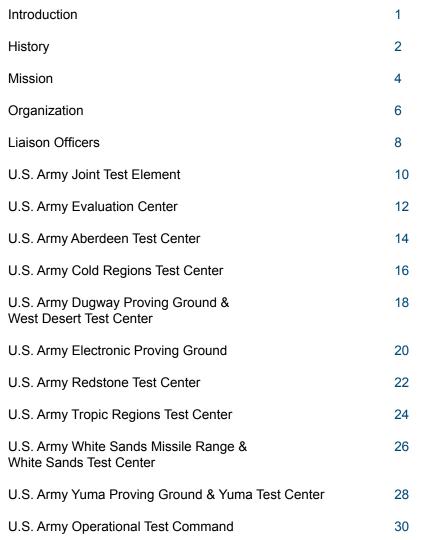
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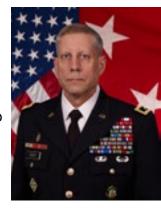
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Introduction

The U.S. Army Test and Evaluation Command (ATEC), with its consolidated headquarters at Aberdeen Proving Ground, Maryland, is the only organization within the Department of Defense to provide integrated evaluation supporting full spectrum testing by overseeing both developmental and operational test events.



And, with an eye toward the future, we also are taking proactive steps to reform T&E for Army and to reset the formation of ATEC into a streamlined and lean force multiplier supporting the Army's ARFORGEN process. By fortifying the ATEC Systems Test teams and making improvements to our internal business processes, we can refine our testing models in a fiscally constrained environment. This challenging environment precipitates the necessity for the right amount of testing at the right time; and for suitable test rigor and adequacy of evaluation to be maintained so that Army leadership can make informed decisions for weapons systems acquisition and sustainment.

Our reorganization is improving integration and coordination between developmental and operational testing. This allows us to identify, early-on, those specific tests whose results will support safety and program decision making while maintaining an acceptable level of program risk.

We also have raised the requirements for ATEC System Team Chairs, who are responsible for the design of experiments and integrated evaluation, to complete Lean Six Sigma Black Belt certification. Conducting continuous process improvement, at both the planning and execution phases, will help to balance the overall T&E sequence.

These are but a few of the reforms we are making in ATEC to better support our Soldiers. Our focus remains on ensuring that they have the very best and safest equipment; that it does what it's supposed to do when it's supposed to do it.

We are the conscience of the American Soldier; on this, we never will compromise.

Army Proven ... Battle Ready.

Peter D. Utley Major General, USA Commanding





History

On November 18, 1998, the Vice Chief of Staff of the Army approved consolidation of developmental and operational testing. That decision led to the redesignation, on Oct. 1, 1999, of the Operational Test and Evaluation Command (OPTEC) to the Army Test and Evaluation Command (ATEC).

Central to the consolidation was ATEC assuming overall responsibility for all Army developmental and operational testing. The Test and Evaluation Command (TECOM) became a major subordinate command of ATEC and was redesignated the U.S. Army Developmental Test Command (DTC), with DTC Headquarters remaining at Aberdeen Proving Ground, Maryland. Also, the Test and Experimentation Command (TEXCOM) was redesignated the U.S. Army Operational Test Command (OTC), with OTC headquarters remaining at Fort Hood, Texas. The third ATEC subordinate command that was redesignated encompassed both the Operational Evaluation Command and the Evaluation Analysis Center, which were combined to form the new U.S. Army Evaluation Center (AEC), completing the earlier decision to move developmental and operational evaluation into a single, integrated command.

Under the consolidation, ATEC also maintains responsibility as the senior mission commander of White Sands Missile Range, New Mexico; Dugway Proving Ground, Utah; and Yuma Proving Ground, Arizona. On Oct 1, 2002, the respective Installation Management Activity regional office assumed that responsibility.

ATEC also took command of Aberdeen Test Center (ATC) at Aberdeen Proving Ground, Maryland; Aviation Technical Test Center (ATTC) at Fort Rucker, Alabama; Redstone Technical Test Center (RTTC) at Redstone Arsenal, Alabama; Electronic Proving Ground (EPG), Fort Huachuca, Arizona; Cold Regions Test Center (CRTC), at Fort Greely, Alaska; and the Tropics Regions Test Center (TRTC), headquartered at Yuma Proving Ground, Arizona, with testing in Hawaii and other locations.

ATEC continues to develop and mature to better posture the Command to respond to customer requirements. Under the mandate of the 2005 Base Realignment and Closure, the Aviation Technical Test Center at Fort Rucker, Alabama consolidated with Redstone Technical Test Center to form the Redstone Test Center (RTC) at Redstone Arsenal, Alabama. To further streamline the Command, the Army Evaluation Center and the Developmental Test Command headquarters staff have been incorporated into ATEC HQ as part of the reorganization to achieve efficiencies and fortify the technical base of the HQ element. Additionally, ATEC Headquarters has relocated from Alexandria, Virginia to Aberdeen Proving Ground, Maryland, to round out the base re-alignment requirement.







Mission

Mission

ATEC plans, conducts, and integrates developmental testing, independent operational testing, independent evaluations and assessments to provide essential information to acquisition decision makers and commanders.

Vision

Determine the true capability provided to our Soldiers through resource informed developmental, integrated and operational test and evaluation in an independent and objective manner.

Crest



The grid lines represent scientific method and verification in the testing programs conducted by the Command. Black and silver denote the precision and clarity required in carrying out these programs. The wreath stands for high ideals. The

balance scale denotes objectivity and represents the testing and evaluation mission of the Command. Blue stands for truth, and gold for excellence.

Patch



The Command's mission, to seek truth through testing and experimentation, is symbolized by the triangle, or fulcrum, balancing a bar and sun. The bar and triangle represent a scale; the sun signifies the search for knowledge, enlightenment, and high ideals. Yellow indicates the precious metal

gold and represents "the worth of quality assurance of tested products." Dark blue alludes to the sky and space, suggesting the possibilities and discoveries of the future. The red sword characterizes the individual Soldier, whose combat preparedness is aided by the data and information products the organization provides. The white expresses the Command's search for the truth and sterling quality of the products produced.

ATEC's Wide Range of Customers

- The American Soldier
- Congress
- Chief of Staff and Vice Chief of Staff, U.S. Army
- Joint Chiefs of Staff
- Army Deputy Chief of Staff for Operations and Planning
- Assistant Secretary of the Army for Acquisition, Logistics and Technology
- Program Executive Officer or Program Manager
- Director of Operational Test and Evaluation
- Under Secretary of Defense for Acquisition, Technology and Logistics
- Director of Information Systems for Command, Control, Communications and Computers
- Training and Doctrine Command
- Army Materiel Command
- U.S. Navy
- U.S. Air Force
- U.S. Marine Corps
- Missile Defense Agency
- Deputy Under Secretary of the Army for Operations Research
- Defense Threat Reduction Agency
- Allied Foreign Countries
- Commercial Developers and Academia
- Manufacturers
- National Security Agency
- Other Federal Departments & Agencies





Organization

ABNSOTD Airborne and Special Operations Test Directorate The U.S. Army Test and Evaluation Command (ATEC) was established Oct. 1, 1999, by the Vice Chief of **AEC Army Evaluation Center** Staff with the primary function of ensuring that our Soldiers go to war with weapons that are operationally **AMSCA** ATEC Mission Support Contracting Activity effective, survivable, and suitable. ATEC has overall responsibility for all Army developmental and opera-ATC Aberdeen Test Center tional testing, operating from two fully integrated major subordinate commands: U.S. Army Operational Test Command (OTC), and the U.S. Army Evaluation Center (AEC), as complemented by eight highly **AVTD Aviation Test Directorate** instrumented test centers. BMDED Ballistic Missile Defense Evaluation Directorate CRTC Cold Regions Test Center EPG **Electronic Proving Ground** FTD Fires Test Directorate JTB Joint Test Board JT&E/QRT Joint Test and Evaluation/ Quick Reaction Tests MCTD Mission Command Test Directorate MS2TD Maneuver Support and Sustainment **Test Directorate** MTD Maneuver Test Directorate OTC **Operational Test Command** Aberdeen Proving Ground RTC Redstone Test Center Dugway ATEC AEC TRTC **Tropic Regions Test Center** Proving Ground -WDTC **WDTC** West Desert Test Center **WSMR** White Sands Missile Range **WSTC** White Sands Test Center YTC Yuma Test Center Ft Bragg ABNSOTD Yuma Proving Ground Ft Sill YTC White Sands Redstone Arsenal WSTC Ft Huachuca BMDED IEWTD Ft Hood OTC ITED Legend MS2TD-AVTD Ft Greek Panama, Hawaii, Suriname Headquarters (the MTD & Honduras MCTD Major Test Facility FOA Teams **AMSCA** Operational Test Directorate Command General Senior Executive Service



ATEC Liaison Officers

As part of our early involvement initiative, ATEC reaches out to acquisition organizations through Liaison Officers. ATEC Liaison Officers establish an important link with external agencies such as Program Executive Offices (PEO), Program Managers (PM), Training and Doctrine Command (TRADOC) and rapid acquisition organizations. Liaison Officers are embedded within these agencies to ensure information exchange remains constant throughout the life cycle – from requirements documentation through the Test and Evaluation (T&E) process and beyond. Early involvement with Liaison Officers can translate directly into cost savings by avoiding the rising cost of change within the system design life cycle.

ATEC Liaison Officers (LNO)

LNO Division Chief	(256) 783-4786
	(256) 842-3173

TRADOC

TRADOC HQ/ARCIC LNO, Fort Eustis, VA	(757) 501-5614
CAC LNO, Fort Leavenworth, KS Engineer Support Cell, Fort Leonardwood, MO	(913) 684-4280 TBD
Maneuver Support Cell, Fort Benning, GA	(706) 545-7952

Dragram Evacutive Offices (DEO)

Program Executive Offices (PEO)		
PEO Ammo LNO, Picatinny Arsenal, NJ	(703) 624-3700	
PEO AV LNO, Redstone Arsenal, AL	(256) 783-4786	
JPEO CBD LNO, Aberdeen Proving Ground, MD	(443) 861-7265	
PEO CS&CSS LNO, Detroit Arsenal, MI	(586) 282-8032	
PEO C3T LNO, Aberdeen Proving Ground, MD	(443) 395-6722	
PEO EIS LNO, Fort Belvoir, VA	(256) 842-3173	
PEO GCS LNO, Detroit Arsenal, MI	(586) 282-6769	
PEO IEW&S LNO, Aberdeen Proving Ground	(443) 861-7265	
PEO MS LNO, Redstone Arsenal, AL	(256) 842-3173	
PEO Soldier LNO, Fort Belvoir, VA	(703) 704-1297 (256) 842-3173	
PEO STRI LNO, Orlando, FL	(407) 384-5353	
Rapid Equipping Force (REF) LNO, Fort Belvoir, VA	(703) 704-4244	
USSOCOM LNO, MacDill, AFB, FL	(813) 826-5084	



Mission

ATEC provides experienced T&E Liaison Officers to:

- Provide early involvement and facilitate a direct communication link between ATEC and TRADOC/PEO.
- Provide advice and assistance in developing T&E strategies.
- Coordinate a T&E cost estimating process between ATEC and PEO/PMs, and ensure adequate funding is budgeted for T&E in the Program Objective Memorandum (POM).
- Provide assistance in resolving conflicts on T&E program-related matters.
- Improve PEO/PM understanding of ATEC's mission and understanding of the ATEC System Team (AST) member mission.
- Work with ATEC/PM Integrated Product Teams (IPT) to improve T&E planning, execution and evaluation.





U.S. Army Joint Test Element

Aberdeen Proving Ground, Maryland (HQs) Suffolk, Virginia Colorado Springs, Colorado Eglin Air Force Base, Florida MacDill Air Force Base, Florida Nellis Air Force Base, Nevada Offutt Air Force Base, Nebraska Peterson Air Force Base, Colorado Camp H.M. Smith, Hawaii

"Doing Better With What We Have"

Who We Are

The Joint Test Element is the Army's branch of the Joint Test and Evaluation (JT&E) Program directed by the Office of Secretary of Defense (OSD), Director, Operational Training and Evaluation (DOT&E). Our mission is to generate operational non-materiel solutions to urgent, specific, joint Warfighter problems through a dynamic rigorous test process. The objective of the U.S Army Joint Test Element is to develop and test, in operational environments, methods for Warfighters to accomplish their missions more effectively with today's equipment, organizations, and doctrine. This is achieved by evaluating new concepts for tactics, techniques and procedures and addressing Combatant Commanders (COCOM) needs and issues in joint military environments.

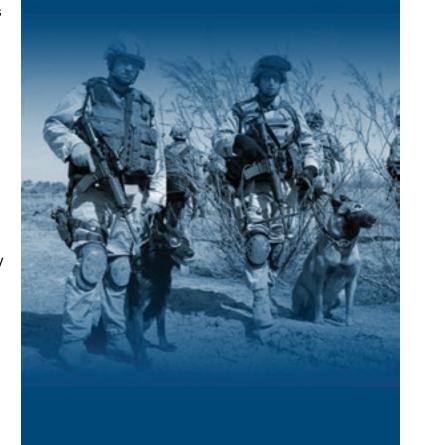
What We Do

The JT&E program is composed of three separate, but closely related, types of projects:

- Joint Test (JT). A test project lasting up to three years in duration and designed to provide solutions to complex joint operational problems.
- Joint Feasibility Study (JFS). A JFS is a sevenmonth study to determine the operational need and feasibility of a proposed joint test. A JFS may culminate in a chartered JT.
- Quick Reaction Test (QRT). A short duration test project, normally less than 12 months, designed to expedite solutions to very focused joint operational problems.

In March of each year, the JT&E Program Office sends out a Call for Nominations to the Services, COCOMs, Joint Staff, and other DOD agencies. The Joint Test Element supports the Army G8 and test sponsors in developing nomination packets for Joint Feasibility Studies (JFS) and twice a year for QRTs; Supports test sponsors for chartered JFS and JTs with Liaison Officers; Leads and manages the execution of Army led QRTs where ATEC is the lead Operational Test Agency.

Generated test products take the form of Joint, Service, COCOM Handbooks, Contingency Operations (CONOPs), and Tactics, Techniques, and Procedures; Chapter or sections in doctrine publications; Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF) change recommendations; and Training inputs to Joint and Service schools. Since FY02, 14 QRT products and 16 Handbooks with more than 150,000 total copies have been distributed across multiservice components.





Major Programs

Current Joint Tests:

- Supporting Agency Joint Integration of Maritime Domain Awareness (JIMDA).
- Supporting Agency Joint Jamming Assessment and Mitigation (JJAM).
- Supporting Agency Joint Unmanned Aircraft Systems Digital Information Exchange (JUDIE).
- Supporting Agency Joint Advance Capability Employment (J-ACE).
- Supporting Agency Joint Deployable Integrated and Air Missile Defense (J-DIAMD).

Current Quick Reaction Tests:

- Lead Test Agency on Joint Analytical Network Analysis (JANA).
- Lead Test Agency on Joint Military Working Dogs (JMWD).
- Lead Test Agency on Joint Vehicle Protection Survivability Systems (JVPSS).
- Lead Test Agency on Foreign Humanitarian Assistance/Disaster Relief (FHA/DR).
- Lead Test Agency on Joint Modular Protective System (JMPS).



Contact Us

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E-mail: Technical Director (Mr. Looney) kenneth.b.looney.civ@mail.mil

Evaluations

U.S. Army Evaluation Center

Aberdeen Proving Ground, Maryland Understanding Through Evaluation

Who We Are

As the Army's premier independent evaluator of materiel systems, the Army Evaluation Center (AEC) provides decision makers with actionable information to support the Acquisition Life-Cycle process. AEC is the U.S. Army Material Independent Evaluation Center that provides the U.S. Army, along with Joint, Interagency, Intergovernmental and Multinational Partners, a clear and concise operationally oriented evaluation of systems intended for our Soldiers or Mission Partners.

AEC is organized into seven directorates focusing on functional areas. Each directorate serves as the Army Evaluation Center focal point with overall management responsibility for developmental testing and system evaluations (effectiveness, suitability, survivability, and safety) of materiel systems and associated software within their functional area. The directorates are structured as follows:

- Aviation-Fires Evaluation Directorate (AFED) –
 Focuses on aviation and fire systems to include
 aircraft, air Soldier support, unmanned aerial
 vehicles, air traffic control, aviation ground support
 systems, air defense artillery systems (missiles,
 fire control, surveillance and fire control radars),
 and field artillery systems.
- Ballistic Missile Defense Evaluation Directorate (BMDED) – Focuses on the operational test and evaluation of the Ballistic Missile Defense System (BMDS) and serves as the lead agency for the BMDS Operational Test Agency.
- Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance Evaluation Directorate (C4ISRED) – Focuses on systems in the areas of mission command and integration, network, information and enterprise, databases and software, Intelligence, Surveillance and Reconnaissance, and Intelligence Electronic Warfare.
- Integrated Suitability and Methodology Evaluation Directorate (ISMED) – Focuses on

independent suitability (Reliability, Availability and Maintainability and Product Support) evaluations of systems and applying analytical methodologies to include facilitating the implementation of design of experiments and modeling and simulation.

- Mounted Systems Evaluation Directorate (MSED)

 Focuses on tactical and combat vehicles,
 maneuver support vehicles, platform specific
 add-on armor, main gun optics, platform specific
 munitions, future fighting vehicles and large
 caliber ammunitions.
- Soldier and Support Systems Evaluation
 Directorate (SSSED) Focuses on close
 combat munitions, dismounted Soldier systems,
 Chemical, Biological, Radiological, Nuclear and
 Enhanced Conventional Weapons (CBRNE), and
 force support systems.
- Survivability Evaluation Directorate (SVED)

 Focuses on Survivability, ballistic and non-ballistic battlefield threats, live-fire evaluations and reports, vulnerability and lethality of Army and designated joint systems, Cyber Security, and support to Combatant Commands (COCOM) major training exercises in assessing Information Assurance and Interoperability.

Major Test Programs

Aviation Systems (AH-64E).

Ballistic Missile Defense System (BMDS).

Counter-Threat measures.

Cyber Security Evaluations.

Live Fire Evaluation.

Joint Light Tactical Vehicle (JLTV).

Mine Resistant Ambush Protection (MRAP) Armored.

Vehicles and variants.

Mission Command.

Network Integration Evaluation (NIE).

Soldier Systems.

System of Systems.

Stryker reliability and Stryker variants, Double V-Hull.

Up-Armor Wheeled Vehicles.

U.S. Army Networks.

What We Do

Support the DoD Acquisition Process through topnotch continuous evaluation by working diligently with our customers and stakeholders to provide essential evaluation information to key Department of Defense decision-makers.

Plans integrated developmental and operational testing and conducts independent evaluations and assessment for DOD acquisition and directed programs.

Develop the evaluation strategy, test design and pursue evaluations addressing operational effectiveness, suitability and survivability on U.S. Army systems as well as DOD partner systems. Develop safety documentation needed for Soldier testing, milestone reviews, materiel release and fielding decisions.

Provide Cyber Security evaluation. Host COCOM major training exercises in assessing Cyber Security.

Provide rapid response analysis for hundreds of Rapid Equipping Force and Rapid Acquisition initiatives.

Satisfy Warfighter and Overseas Contingency Operations (OCO) requirements.

Chair over 95 percent of Army Test and Evaluation Command (ATEC) Systems Teams (AST), which guide the initial test and evaluation effort.



The Land-based Phalanx Weapons System (LPWS) intercepts incoming threats during Counter-Rocket Artillery Mortar (C-RAM) System-of-Systems Demonstrations at Yuma Proving Ground.

Contact Us

Phone: (443) 861-9701

Web site: www.atec.army.mil/AEC/



Aberdeen Test Center

Aberdeen Proving Ground, Maryland

The Defense Department's Most Diverse Test Facilities in a Temperate Climate

Who We Are

A Department of Defense (DoD) Major Range and Test Facility Base (MRTFB) Activity whose primary mission is to support test and evaluation requirements on 66,000 terraqueous acres with over 50 automotive test platforms, 15 automotive test ranges, 31 firepower test ranges, and 7 Soldier system test platforms.

The Army's Center of Excellence and lead test center for automotive, direct fire, non-lethal weapons, unmanned ground vehicles, littoral warfare, soldier systems, survivability, transportability with extensive mobile instrumentation, satellite communications, and leading edge technologies.

DoD lead for Systems Live Fire testing.

An accredited federal laboratory.

What We Do

Plan, conduct, analyze, and report results of developmental tests, production tests, and other tests of a wide range of materiel systems in the following areas:

Command, Control, Communications, and Computers (C4)

Firepower (Direct Fire/non-lethal; Small and Large Caliber)

Emissions characterization

Engineering Equipment

- Construction/ Material Handling Equipment
- Bridging Systems
- Watercraft Marine Systems
- UXO detection systems and technology

Environmental Mitigation Technologies

Intelligence, Surveillance, and Reconnaissance

 Intelligence/ Command and Control (C2) Systems

Conduct test and evaluation of rapid equipping initiatives.

Provide data and analysis supporting safety releases, safety confirmations, capabilities and limitations of materiel solutions, so soldiers can safely use systems.

Develop comprehensive instrumentation for automotive, soldier systems, ballistics, and network communications testing.

Major Programs

Unified data management system accessing data collected throughout the acquisition lifecycle that allows the sharing and integration of data to produce knowledge.

Automotive testing of Family of Medium Tactical Vehicles (FMTV) and Joint Light Tactical Vehicles (JLTV).

Survivability/Lethality testing of Stryker Double V-Hull.

Advanced Medium Mobile Power Sources testing.

Warfighter Information Network-Tactical (WIN-T).

In-theater Black Box data collection systems for automotive and ballistic data.

Modeling and simulation capabilities to support Brigade Combat Team Modernization.

Threat survivability testing.

Automotive and ballistic testing of Stryker variants including the Mobile Gun System (MGS).

Ballistics testing of Soldier helmets and body armor.

Large-caliber ammunition lot acceptance testing.

Armor plate acceptance testing.

Aircraft survivability/Threat Detection Systems/Fire Suppression Testing.

Individual and crew served weapons and ammunition.



The Automotive Technology Evaluation Facility (ATEF) is a multi-surface test track, 4.5 miles long and 207 feet wide with vehicle operating capabilities and operational employment speeds increasing to 70 mph. All of ATC's Automotive test courses combined represent 85% of the world's terrain. A total of 348,904 miles have been driven on all of the test courses within the last year.



The US Army Aberdeen Test Center is the Army's Center for Excellence for congressionally mandated live fire vulnerability lethality testing, as shown in this live fire shot on a Medium Tactical Vehicle Replacement (MTVR).

Contact Us

Phone: (410) 278-4639 DSN: 298-4639 Web site: www.atc.army.mil



Cold Regions Test Center

Fort Greely, Alaska

Test and evaluation excellence in the extreme arctic environment to insure worldwide functionality of DOD materiel.

A Yuma Proving Ground subordinate test center

Who We Are

The Defense Department's only natural environment tester for Military equipment required to operate in the cold weather regions, with longstanding expertise in test and evaluation in extreme cold to ensure worldwide functionality.

The Cold Regions Test Center (CRTC) is a component organization with access to the Major Range and Test Facility Base (MRTFB) that consists of more than 670,000 acres of impact area and maneuver space. The varied effects of terrain, temperature, wind, snow, ice, combined with ice fog that collectively offer a level of extreme natural environments operational realism truly unique to this MRTFB.

Additionally, the CRTC maintains and operates a 3.26-mile paved and banked oval test track, with skid pad and test slopes, including the capability to produce large-scale ice and snowfields, an 800-foot unmanned aerial system airfield within 30 kilometers of Afghanistan-like mountains that reach 13,000 feet, and are the priority user of all airspace, ranges and maneuver areas at Donnelly Training Area, Fort Wainwright, Alaska.

What We Do

Testing of

- Military tracked and wheeled vehicles
- Manned and unmanned ground and aerial systems and unmanned ground sensors
- Weapon systems (direct and indirect fire), munitions, and small arms
- Soldier systems and support equipment
- Individual Soldier clothing and equipment
- Mines, explosives, and demolitions

Provide access to

- Numerous primary, secondary, and cross-country test courses for vehicle mobility, reliability, and durability testing
- A state of the art Battle Area Complex/Combined Arms Collective Training Facility (BAX/CACTF)
- Assault strips, drop zones, and a Military Operations in Urban Terrain (MOUT) site

Provide commercial customers with brake, suspension, traction, and handling test courses

Utilize United States Army Alaska Soldiers (when available) as test participants/operators during developmental testing

Provide test support and cold weather expertise to other service branches, government agencies, and private industry

Major Programs

Mine Resistant Ambush Protected (MRAP) vehicle variants, to include the MRAP All Terrain Vehicle (M-ATV)

Support for fielding of MRAP training vehicles to United States Army Alaska through cold weather testing and cold weather environmental performance upgrades

Warfighter Information Network-Tactical (WIN-T)

Stryker Family of Vehicles

M1A2 Abrams Tank System Enhancement Package version 2

Test of indirect fire weapons such as Non-Line of Sight (NLOS) Launch System, Excalibur, Marine Corps Expeditionary Fire Support System (EFSS), and Precision Guidance Kit (PGK)

Test radar systems such as the Lightweight Counter-Mortar Radar (LCMR v3) and EQ-36 Radar

Support for operational tests and joint service tests such as the Marine Corps Logistics Vehicle System Replacement (LVSR) and Marine Corps Shoulder-Launched Multipurpose Assault Weapon (SMAW) II

On-going, yearly, natural environment storage tests for both the Marine Corps and Army

Soldier equipment to include Lightweight Laser Designator Rangefinder (LLDR), Enhanced Night Vision Goggles (ENVG), Surveillance and Battle Damage Assessment Device (SBDAD), Thermal Weapon Site (TWS), and Laser Target Locator Module (LTLM)

Individual Soldier clothing and equipment to include Individual Cold Weather Stove, Improved Army Combat Uniform (ACU) combat trouser, and Modular Boot System



The Stryker Mobile Gun System fires a 105 mm round downrange in subzero temperatures during a rate of fire test.



Contact Us

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Web site: www.crtc.army.mil

Facebook: www.facebook.com/USACRTC

Dugway Proving Ground & West Desert Test Center

Dugway, Utah

Science Serving Warfighters and Citizens

Who We Are

Department of Defense lead tester for:

- US and allied chemical and biological (CB) defense equipment.
- CBR contamination survivability of defense materiel.

Program Manager for Operational Meteorology for Army Research Developmental Test and Evaluation.

A Department of Defense (DoD) Major Range and Test Facility Base (MRTFB) Activity whose test facilities and ranges comprise approximately 800,000 acres. DPG and Utah Test and Training Range (adjacent Air Force military property and air space) maintain a team relationship to serve customers and utilize the many resources available.

Center of Excellence for Program Manager, Unmanned Aerial Systems, Rapid Integration and Acceptance Center.

Primary test site for Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) developmental and operational testing.

What We Do

Conduct CB collective and individual protection, detection, contamination avoidance and decontamination testing for joint services, combatant commands and other agencies:

- Developmental and operational outdoor field testing using CB simulants.
- Developmental laboratory and chamber testing using a full array of CB agents.

Manage the development of CB defense models and validation tests.

Act as the primary CB defense test center under the Reliance Program.

Host full-scale field exercise that enable emergency response organizations to validate their tactics, techniques and procedures for use during CB weapons incidents.

Provide test and training ranges with nine drop zones, 91 artillery firing points and four major impact areas (231,000 acres).

Maintain capability to handle all Army and Air Force aircraft with fully lighted 11,000 foot runway.

Determine the reliability and survivability of all types of military equipment in a CB environment.

Support the CB weapons convention.

Meteorology technology development.

Simulated Environmental and Physical Testing (MIL-STD-801G).

Smoke and obscurants:

- · Smoke and obscurants effectiveness.
- Smoke generation.

Major Programs

Chemical:

- Joint Service Lightweight Suit Technology.
- · Joint Protective Aircrew Ensemble.
- Joint Service Chemical Environmental Survivability Mask.
- Joint Platform Interior Decontamination.
- Joint Expeditionary Collective Protection.
- Joint Service Lightweight NBC Reconnaissance System.
- Joint Services Decontamination Family of Systems.
- Chemical, Biological, Radiological, Nuclear (CBRN) Dismounted Reconnaissance Sets, Kits, and Outfit.

Biological:

- Joint Biological Point Detection System.
- Joint Biological Tactical Detection System.
- Joint Biological Agent Identification and Detection System.
- Joint Biological Standoff Detection System.
- · Critical Reagent Program.
- Whole System Live Agent Test.
- Department of homeland Security (DHS) BioWatch.

- Support of FBI and EPA regarding anthrax investigation/decontamination.
- Homeland Security support for Center for Disease Control/National Institute for Occupational Safety and Health pathogen sampling.

Meteorological:

- Granite Mountain Atmospheric Sciences Testbed.
- Four-Dimensional Weather System Development.
- Defense Threat Reduction Agency Field Studies and Modeling Program.
- Joint Urban 2003.
- Defense Advanced Research Projects Agency Pentagon Shield.

Unmanned Aerial Systems:

- Rapid Integration and Acceptance Center.
- Integrating New Technologies for the Warfighter.
- Abundant Airspace and Expanding Infrastructure.

Nontraditional Testing and Training

- Synthesis and Detonation of Homemade Explosives (HME).
- Comparison and Analysis of Traditional Explosives to HME.
- Construction and Evaluation of Damage from IEDs.
- Toxic Industrial Chemical/Toxic Industrial Material (TIC/TIM) field testing for source term modeling and hazard analysis.
- Evaluation of Counter Proliferation and Agent Defeat Techniques.
- Emergency Response Training.
- Collection and Detection System for CBRNE Simulants.



Containment Aerosol Chamber at Life Sciences Division, West Desert Test Center, U.S. Army Dugway Proving Ground, Utah. In this chamber, actual or simulated Biosafety Level-3 agents are released as a fine aerosol, to test biological detectors.



Tunnel Test of Joint Biological Tactical Detection System (JBTDS) in the Ambient Breeze Tunnel of Life Sciences Division, West Desert Test Center, U.S. Army Dugway Proving Ground, Utah.

Contact Us

Phone: (435) 831-3409 DSN: 789-3409 Email: paula.a.thomas23.civ@mail.mil Web site: www.dugway.army.mil





Electronic Proving Ground

Ft. Huachuca, Arizona

The Army's Center of Expertise for Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Developmental Testing and Operational Testing for Intelligence and Electronic Warfare systems.

Who We Are

A Department of Defense (DoD) Major Range and Test Facility Base (MRTFB) Activity.

Primary mission is to support C5ISR, communication, networking, intelligence and electronic warfare systems testing.

A cost reimbursable, government test range with extensive laboratory facilities, controlled air space, and test sites.

Headquartered on Fort Huachuca, in Southeastern Arizona. We have field offices on Fort Hood, TX and Fort Lewis, WA. USAEPG is unique within the DOD because of its naturally quiet electromagnetic environment, its unique specialized facilities, its close relationship with the Joint Interoperability Test Command, Army NETCOM and Military Intelligence training community, and its ability to use the expansive real estate of southern Arizona. Operations are routinely possible on 70,000 acres on Ft. Huachuca, 1.6 million acres on the Arizona State-protected Buffalo Soldier Electronic Test Range, and with prior coordination, on approximately 62 million acres of federal and state owned land.

What We Do

Plan, conduct, and analyze the results of Technical Tests for C5ISR, communication, networking, Intelligence, and Electronic Combat (EC)/Electronic Warfare (EW) systems. Support the Army operational test community in the conduct of operational tests, user tests, and experiments. Support customers in the joint and training communities as well. Experts in distributed system of systems testing, Electromagnetic Environmental Effects, TEMPEST and Antenna pattern testing.

We are the Army's only open-air integrated Cyber and Electronic Warfare test bed.

Experts in Global positioning, navigation and rescue beacon testing and certification.

Conduct and provide quick-reaction support to real world missions for the Department of Homeland Security, other federal agencies, and commercial customers. Develop innovative advanced technology solutions via instrumentation, stimulations and simulations to enhance test planning, situational awareness, data collection and reduction, and test after-action review.

Major Programs

Army Battle Command Systems (ABCS).

Compass Call (Air Force).

Dismounted Blue Force Tracker (BFT).

Distributed Common Ground System – Army (DC-GS-A)

Software Block (SWB) 1 & 2 Capability Set (CS)

FBCB2 Joint Capability Release (JCR).

Force XXI Battle Command Brigade-and-Below

(FBCB2) & Blue Force Tracker (BFT).

Global Positioning System (GPS).

Integrated Network Testing: Technical Field Test and

Early-Infantry Brigade Combat Team (E-IBCT).

Joint Improvised Explosive Device Defeat (JIEDDO).

Joint Light Tactical Vehicle (JLTV)

JTRS Mid-Tier Networking Vehicular Radio (MNVR).

JTRS HMS - Manpack.

JTRS HMS - Rifleman.

Land Warrior (LW).

Mounted Soldier System (MSS)

Nett Warrior (NW).

Prophet & Counter Remote Controlled IED Electron-

ic Warfare Families (CREW)

Rapid Equipping Force (REF) programs.

Stryker Family of Vehicles.

Tactical Ground Reporting Network (TiGRNET).

Warfighter Information Network – Tactical (WIN-T).

Wireless Network after Next (WNaN).



The Arc Range at the Antenna Test Facility measures electromagnetic fields that radiate from antenna systems that populate a variety of land and air vehicles. With its 75 feet radius and 80 ton positioner system the range is capable of making these measurements on any vehicle in the Department of Defense inventory.



The Electronic Proving Ground conducts test during the development of systems such as Stryker Commander's Vehicle in Chamber 4, being prepared to perform emissions testing.

Contact Us

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Web site: www.epg.army.mil



Redstone Test Center

Redstone Arsenal, Alabama

An Army Leader in Aviation and Missile Testing

Who We Are

The premier Army agency for testing military aircraft throughout the acquisition, modernization and sustainment life cycle in support of America's warfighters.

The Army's tester of small rockets, missiles, weapon components, subsystems, and unmanned and remotely operated weapon systems.

A center of sensor test expertise for commodities ranging from electro-optic systems, laser systems, biometric systems and force protection suites which employ multiple sensors ranging from acoustic to imaging radars.

A cadre of military and civilian experimental test pilots, flight test engineers and technicians who conduct developmental testing of manned and unmanned aircraft and aviation systems.

The Army's technical testers for aviation and missile subsystems and components, and primary electromagnetic environmental effects tester for Army aviation systems.

A center of expertise for testing lightning's effects on explosive and hazardous materials.

A lead developer of distributed testing technologies.

What We Do

Test the flight performance of aviation systems and aircraft handling qualities, and conduct airworthiness qualifications of Army aircraft.

Provide complete test capabilities for small rocket and missile systems, including flight, warhead, and motor performance as well as robust climatic and dynamic environmental testing.

Perform safety, qualification and reliability testing of Army aircraft components and systems in support of Air Worthiness Qualification. Employ laboratory and field sensor test capabilities utilizing state-of-the-art methods for determining systems performance.

Conduct environmental and electromagnetic environmental effects testing of components, subsystems, and systems.

Test sensors/seekers/designators for weapon systems and homeland defense systems.

Test Counter-Threat technologies including ground and aerial intelligence, surveillance and reconnaissance sensor systems and electronic countermeasure systems.

Test under simulated battlefield conditions that include obscurants and countermeasures.

Test the integration of aviation systems into aircraft, including human factors engineering and system safety.

Test aircraft handling under icing and rain conditions, both natural and artificial.

Instrument aircraft, conduct aircraft modifications and perform maintenance.

Collect and process test data, and conduct test-flight simulations and flight-test engineering.

Conduct static and dynamic testing of warheads and fuses including urban targets.

Perform Insensitive Munitions testing.

Test digital communications systems.



Major Programs

Javelin Anti-Armor Missile System.

Hellfire Missile Systems.

Multiple Launch Rocket System (MLRS).

TOW Missile Systems.

Unmanned Aerial Systems (UAS).

Common Missile Warning System Upgrades and System Performance Testing; Multiple Platforms.

Active Protection Systems (APS).

Advance Threat Infrared Counter Measure Testing (ATIRCM); Multiple Platforms.

AH-64E Testing.

UH-60M Modernization Testing.

UH-60M Upturned Exhaust and EDECU (Common ECU).

OH-58 Kiowa Cockpit and Sensor Upgrade Program (CASUP) Testing.

CH-47F Chinook Product Improvement Program Testing.

MH-60M Black Hawk Systems Qualification Testing.

Force Protection Systems.

Joint Air-to-Ground Missile (JAGM).

Joint Light Tactical Vehicle (JLTV).

UAS Sensor Payload Systems.

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UH-60 upward turned exhaust testing to reduce the heat signature of the aircraft.



NASA Robotic Lunar Lander undergoes a series of integrated system testing at the Propulsion Test Facility.



Tropic Regions Test Center

Yuma Proving Ground, Arizona

Test and evaluation excellence in the extreme tropic environment to insure worldwide functionality of DOD materiel

A Yuma Proving Ground subordinate test center

Who We Are

Department of Defense lead tester for materiel and systems in the tropic environment

Test facilities and ranges are located in Hawaii, Panama, Suriname, and Honduras.

What We Do

Conduct tests of Army and joint program systems in natural tropic environments.

Maintain an array of micro-environmental test areas in diverse tropic forests, open lands and coastal regions.

Test all types of systems and materiel in a tropical environment to provide the warfighter with the best equipment possible to fight, win and survive in any jungle environment.

- Individual Soldier Systems
- Chemical/Biological Protective Systems
- Chemical/Biological Detectors
- Sensors/Target Acquisition Systems
- Mine Countermine
- Automotive Systems
- Communications/Electronics Systems
- Exposure Testing
- Human Factors Engineering

Challenge weapons and other systems in extreme real-world tropic environments under complex test parameters that cannot be duplicated in a chamber, including:

- Temperature and humidity
- Wind and salt spray
- Rain and water immersion
- · Solar radiation and ozone
- Animals and insects
- Fungi and bacteria
- Triple canopy

Test Soldier systems in tropic environments, assessing:

- Durability
- Performance
- Reliability
- Human factors

Portability and mobility tests evaluate tropic issues, including:

- System ruggedness
- Component analysis
- Maintainability
- Small team effectiveness
- System analysis
- Use standardized test sites, courses and written procedures to determine system performance and reliability, and interpret the results
- Combine the realism of operational test principles with the control of developmental testing techniques to produce objective results
- Evaluate Soldiers system materiel through human factors engineering
- Test Soldier system support equipment performance and reliability
- Test environmental military technologies
- Provide test support to other service branches, government agencies, and private industry

Major Programs

NBCRV (Nuclear, Biological, Chemical Reconnaissance Vehicle) variant of Stryker vehicle and M-56 Smoke Generation System (SGS)

Joint Soldier system programs/chemical biological defense systems:

- Joint Service Lightweight Integrated Suit Technology
- Joint Chemical Agent Detector (JCAD)
- Joint Lightweight Stand-off Chemical Agent Detector (JLSCAD)

MRAP (Mine Resistant Ambush Protected) vehicle, multiple variants

Lightweight Assault Rifle (XM-8 family of weapons)

Sensor and communications systems: Airborne Multi-Sensor programs; ground sensors; air and ground communications systems



Stryker vehicle fording flooded roadway while undergoing a 2,000 mile endurance cycle.

Contact Us

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Tropical on-the-move testing of a Stryker with onboard data aquisition instrumentation in a mission based scenario.





White Sands Missile Range & White Sands Test Center

White Sands, New Mexico

DoD's Extensive All Overland Test Range

Who We Are

A Department of Defense (DoD) Major Range and Test Facility Base (MRTFB) providing weapons and commercial product testing and evaluation (T&E) services. Customers include government and commercial, joint, interagency, and multi-national entities

Department of Defense's largest overland Test Range (2.2 million acres).

Expert in complex and multi-mission command and control.

Inter-Range Control Center for distributed testing.

Manager of DoD zero to infinity restricted air space, with full command and control authority.

Provider of high quality services for experimentation, test, research, assessment, development, and training for warfighters and customers in support of the Nation at war.

What We Do

Plan, conduct, analyze, and report the results of developmental tests, production tests, and other tests in the following areas:

Air/missile defense systems.

Aircraft systems - aircraft armaments fixed-wing and aircraft survivability equipment.

Command, control, communications, and computers (C4):

- Missile systems.
- Navigation systems.
- System components.

Directed energy weapons.

Electromagnetic environmental effects (E3), electromagnetic interference (EMI), electromagnetic compatibility (EMC), external electromagnetic environment.

- Ground systems
- Electromagnetic pulse
- Aviation safety of flight (ADS-37)

Intelligence, surveillance and reconnaissance systems (ISR) – Target acquisition architectures (infrared electro-optical sensors, radar)

Missiles/rockets:

- Line-of-sight and Nonline-of-sight missiles
- Missile/rocket Propulsion systems
- Components/subsystems (warheads, fusing, guidance/seeker, etc.)

Nuclear weapons effects

System of systems integration

Distributed testing - Inter-Range Control Center (IRCC)

Major Programs

Advanced Medium Range Air-to-Air Missile.

Army Tactical Missile System Multiple Launch Rocket System.

Bradley A3.

Defense Threat Reduction Agency Programs - Deeply buried hardened targets.

Extended Range Gun Munitions.

High Mobility Artillery Rocket System.

Japan ChuSam.

Japan PATRIOT.

Joint Air-to-Surface Standoff Missile.

Joint Direct Attack Munitions.

M1A1 Abrams Integrated Management Tank.

Multiple Launch Rocket System.

Non-Line-of-Sight Launch System.

Orion Crew Exploration Vehicle.



Two High Mobility Artillery Rocket System launchers fire their rockets shortly after being unloaded from a C-17 transport plane at White Sands Missile Range's Space Harbor, N.M., April 27,2011. The launchers feature a new navigation and targeting system that allowed them to rapidly set up and fire after landing.

PATRIOT and PATRIOT Advanced Capability 3 Missile.

Small Diameter Bomb.

Standard Missile.

Stryker.

Terminal High Altitude Area Defense (THAAD).

Unmanned Aerial Systems (Aerostar; Extended Range Multi-Purpose; Global Hawk; Hunter; Predator; Raven; and Shadow)

Unmanned Ground Systems

System of Systems distributed test events and experimentation.

Contact Us

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A rocket streaks skyward from Spaceport America during an educational launch May 20, 2011. White Sands Missile Range granted WSMR airspace, assisted in the tracking of the rocket in flight, and flew a recovery team out to the landing site.



Yuma Proving Ground & Yuma Test Center

Yuma, Arizona

Test and evaluation excellence in the extreme hot environment; and for the direct/indirect fire, mine/countermine, aviation-launched munitions aviation/airdrop and unmanned systems to insure worldwide functionality of DOD materiel.

Who We Are

Yuma Test Center is a subordinate test center under Yuma Proving Ground (YPG) which is a Major Range and Test Facility Base (MRTFB).

The test center has been the Army's busiest test organization for the past four years; over 1.9 million personnel direct labor hours were conducted in FY13 with approximately 100 tests ongoing daily.

The test center is one of the Defense Department's largest land holders, YTC is over 838,000 acres (1,300 square miles) with a variety of terrain, from gentle valleys to craggy peaks. The test center has excellent physical and spectral isolation, and has no endangered species or encroachment concerns.

Yuma Test Center manages approximately 1.2 million acres (1,976 square miles) of airspace maintaining control of restricted airspace 7days a week/24 hours a day. The stable atmosphere, dry clear air, and low wind ensure 360 total available flying days per year.

Two hundred miles of robust and grueling mobility test courses with extreme desert temperatures challenge personnel and equipment in a realistic environment.

Yuma Test Center's specialized equipment, stateof-the-art facilities and expansive test areas provide realistic testing and support almost perfect test and training conditions. Ranges feature instantaneous connectivity with over more than 800 miles of fiberoptic cable.

We provide accuracy and effectiveness of ground weapons systems testing on ranges from small arms to long range artillery, as well as lot acceptance for the artillery and tank munitions that are used on these systems. Encompasses mine and mine detection/removal systems, and the testing of track and wheeled vehicles in the harsh desert environment.

Yuma Test Center has urban areas specifically constructed to defeat the threat of improvised

explosive devices and proven expertise in testing electronic countermeasures.

The test center features six airfields and highly instrumented flight test and aviation launched munitions facilities and ranges. Dozens of unmanned aircraft and sensor platforms such as tethered aerostats conduct testing at YTC, in addition to continued testing of the AH-64 Apache helicopter.

Live fire ranges are capable of supporting events ranging from small arms firing to complex squad, platoon and company level fire and maneuver while supported by mortar, artillery or air delivered munitions

Additional training facilities include: Multiple Forward Operations Bases (FOBs), sniper range, multiple Military Operations on Urban Terrain (MOUT) facilities, live fire shoot house, convoy live fire lane, grenade, demolitions, TOW and Stinger ranges, navigation area and driving courses and transient Military Working Dog kennels.

What We Do

Yuma Test Center is the primary tester for

- Combat Vehicles and Automotive Systems
- Air Delivery Systems/Airdrop
- Rotary wing Aircraft Armaments
- Engineering Equipment
- Direct-Fire Systems (non missile/rocket)
- Improvised Explosive Device (IED)
- Indirect-Fire Systems
- Unmanned Aircraft Systems
- Natural Environmental Testing

Major Programs

Joint Light Tactical Vehicle (JLTV)

Counter-Rockets, Artillery, and Mortars (C-RAM)

M109A7 Paladin PIM

M777A2 Lightweight Howitzer Acceptance Testing Persistent Threat Detection System (PTDS)

Precision Guidance Kit (PGK)

Lightweight Counter Mortar Radar (LCMR)

XM982 Excalibur

Reaper UAS

Stryker armored vehicle (all variants)

NASA Orion

Q53 Radar

Joint Precision Air Delivery System (JPADS)

Vehicle Mounted Mine Detection System

Weapons Tactics Instructor Course (WTI-USMC)

Military Working Dog Training



Yuma Proving Ground has devoted over a million labor hours to durability testing of the MRAP vehicle. In these tests, a vehicle is driven across 12,000 miles of punishing desert terrain as evaluators monitor every aspect of its performance. The proving ground has more than 200 miles of test courses to facilitate these evaluations, in addition to mock villages that simulate those in theater and a high -speed test track that can safely accommodate convoy operations of eight vehicles simultaneously.

Contact Us

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Facebook: www.facebook.com/USAYPG



Yuma Proving Ground has nearly 2000 square miles of restricted airspace, a vast holding used by testers at YPG's aviation systems branch to weaponize and test manned and unmanned aircraft in all stages of the development cycle. The clear, stable air and extremely dry climate where inclement weather is a rarity, as well as YPG's isolation from urban encroachment, makes it highly coveted for this type of testing. All of these tests can be conducted concurrently and without having to compete for runway and airspace with manned fighter jets as at other installations.





Operational Testing

U.S. Army Operational Test Command

Fort Hood, Texas *Truth in Testing*

Who We Are

The United States Army Operational Test Command (USAOTC), the Army's independent operational tester, tests and assesses systems in a realistic operational environment using typical Soldiers to determine whether systems are effective, suitable and survivable in varying environments. OTC remains true to its ultimate customer- the American Soldiers, our sons and daughters who answer the call to duty and serve our nation.

The Army's independent operational tester meets the operational test requirements of public law (Title 10, US Code, Section 139).

OTC deploys Forward Operational Assessment teams into Afghanistan and Kuwait to support the warfighters and the Army's Rapid Acquisition Initiatives.

OTC headquarters command and staff and four test directorates are located at Fort Hood, Texas. Four forward test directorates are located at Fort Bliss, Texas; Fort Bragg, North Carolina; Fort Huachuca, Arizona; and Fort Sill, Oklahoma. A Test and Evaluation Coordination Office (TECO) is located at Fort Leonard Wood, Missouri, and an Infantry Support Cell is located at Fort Benning, Georgia.

- Airborne and Special Operations Test Directorate (ABNSOTD): As the Army's independent operational testers for airborne contingency and Joint Special Operations Forces, ABNSOTD plans, conducts and reports on the Army's airborne systems and techniques in support of the acquisition decision-making process.
- Aviation Test Directorate (AVTD): Plans, conducts and reports on manned and unmanned aviationrelated operational tests and field experiments, to include attack, reconnaissance, cargo and lift helicopters, fixed wing aircraft, tactical trainers, ground support equipment and aviation countermeasure systems.

- Fires Test Directorate (FTD): The Army premier air and missile defense operational tester. With its headquarters at Fort Sill, Oklahoma, and its Missile Test Division at Fort Bliss, Texas, FTD plans, conducts and reports on operational testing of Field Artillery and Air Defense systems.
- Integration and Evaluation Test Directorate (IETD): The Army's primary support to the fielding of an integrated network capability to the operating force, ITED plans, coordinates and conducts integrated operational test and Rapid Acquisition Initiative (RAI) assessments in support of network integration and other priority Army systems.
- Intelligence and Electronic Warfare Test
 Directorate (IEWTD): The Army's operational tester
 of Intelligence, Surveillance, Reconnaissance
 (ISR); Electronic Warfare (EW); Biometrics (BM);
 and Counter-Threat systems. As the developers
 and implementers of the Intelligence Modeling
 and Simulation for Evaluation (IMASE) capability,
 IEWTD boats a collaborative environment
 with their state-of-the-art Intelligence Systems
 Integration Laboratory (ISIL).
- Maneuver Test Directorate (MTD): Lead operational tester for armor and infantry weapons systems and equipment. Providing a full complement of data collection, reduction and management, MTD plans, conducts and reports on operational tests and assessments of armor and infantry (light and mechanized) acquisition programs, Rapid Fielding Initiatives (RFI) and Rapid Equipping Force (REF) programs.
- Maneuver Support and Sustainment Test Directorate (MS2TD): A versatile directorate, MS2TD conducts operational tests in the areas of combat engineer, chemical, transportation, military police, quartermaster, ordnance and medical service.
- Mission Command Test Directorate (MCTD): Tests systems for a net-centric environment that will process and transmit voice, data, messaging and video information through networks at the tactical, operational, strategic and sustaining base levels.

Major Programs

Network Integration Evaluation (NIE).

Nett Warrior (New Ground Soldier System).

THAAD (Terminal High Altitude Aerial Defense).

JTRS (Joint Tactical Radio Systems).

Apache Block III.

Spider Command Network Munitions.

JPADS (Joint Precision Airdrop System).

Prophet (Signals Intelligence/Electronic Warfare).



An M2A3 Bradley commander is equipped with the Mounted Soldier System (MSS) during the pilot test at the Network Integration Evaluation at White Sands Missile Range, New Mexico.



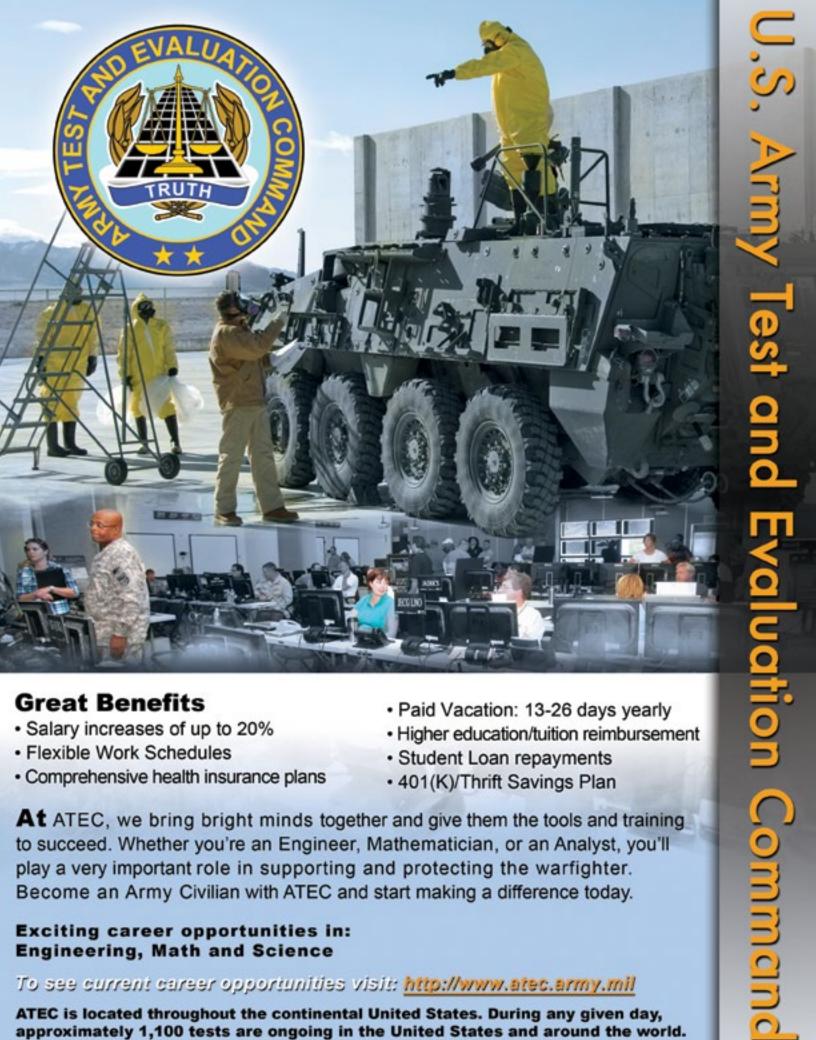
Special Operations Forces operators participate in a test to determine the suitability, effectiveness, and safety of the Improved Weighted Fast Rope System during fast rope insertion operations from the CV-22 (Osprey) aircraft.

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approximately 1,100 tests are ongoing in the United States and around the world.