



U.S. ARMY

AMC RESOURCE GUIDE

2017-2018



NORTHCOM

EUCOM

GLOBALLY RESPONSIVE

SOUTHCOM



COMBATANT COMMANDS KEY

- CENTCOM.....U.S. Central Command
- PACOM.....U.S. Pacific Command
- EUROM.....U.S. European Command
- NORTHCOM.....U.S. Northern Command
- AFRICOM.....U.S. Africa Command
- SOUTHCOM.....U.S. Southern Command

AMC RESOURCE GUIDE 2017-2018

The U.S. Army Materiel Command's annual Resource Guide contains detailed information on each of AMC's entities, working to support Army materiel readiness worldwide.



KEY

- Army Field Support Brigades (AFSB)
- Contracting Support Brigades (CSB)
- Transportation Brigades (TB)
- Research, Development and Engineering Forward Element Commands (RFEC)

AMC SUPPORT TO COMBATANT COMMANDS

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COVER IMAGES: A U.S. Army Reserve CH-47 Chinook helicopter pilot deployed with Task Force Warhawk, 16th Combat Aviation Brigade, 7th Infantry Division scans below over the Registan Desert in Helmand Province, Afghanistan, June 21, 2017. The Warhawks provide aviation support to U.S. Forces Afghanistan as part of Operation Freedom's Sentinel.



BACK COVER IMAGE: U.S. Soldiers, assigned to Delta Company "Dark Knights," 3rd Combined Arms Battalion, 69th Armor Regiment, 1st Armor Brigade Combat Team, 3rd Infantry Division, observe the explosion of a mine clearing line charge during a combined arms live-fire exercise, which concludes exercise Combined Resolve IV, at the 7th Army Joint Multinational Training Command's Grafenwoehr Training Area, Germany, June 25, 2015. Combined Resolve IV is a U.S. Army Europe-led, multinational exercise designed to train the U.S. Army's European Rotational Force - the 1st Armored Brigade Combat Team, 3rd Infantry Division - alongside more than 4,700 allies and partners from 13 European countries as part of a decisive action training environment to execute unified land operations against a complex threat. (U.S. Army photo by Visual Information Specialist Markus Rauchenberger)



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U.S. ARMY MATERIEL COMMAND

The U.S. Army Materiel Command (AMC) is the Army's materiel integrator and the premier provider of materiel readiness – technology, acquisition support, materiel development, logistics power projection, and sustainment – to the total force, across the spectrum of joint military operations.

MISSION

U.S. Army Materiel Command develops and delivers materiel readiness solutions to ensure globally dominant land force capabilities.

VISION

U.S. Army Materiel Command is operationalized as the Army's materiel integrator, synchronizing capabilities and resources to ensure Army materiel readiness.

ABOVE: The U.S. Army Communications-Electronics Research, Development and Engineering Center uses the Radio-frequency Electro-Magnetic Compatibility and Antenna Test Laboratory to test vehicles in a wide variety of radio frequency spectrum. (U.S. Army photo by Conrad Johnson)

OPPOSITE PAGE: Quality Control Inspector Paul Schwab inspects a T-55 engine at Corpus Christi Army Depot. (U.S. Army photo by Jose E. Rodriguez)

Headquartered at Redstone Arsenal, Alabama, AMC has an impact or presence in all 50 states and more than 150 nations across the globe. AMC is one of three Army Commands and oversees 10 major subordinate commands and three separate reporting activities. Manning these organizations is a workforce of more than 61,000 dedicated military and civilian employees, and another 60,000 contractors, many with highly developed specialties in weapons development, manufacturing and logistics.

The command's complex missions range from development of sophisticated weapons systems and cutting-edge research, to maintenance and distribution of spare parts. AMC operates the research, development and engineering centers; Army Research Laboratory; depots, arsenals and ammunition plants; and maintains the Army's Prepositioned Stocks, both on land and afloat. The command is the Department of Defense Executive Agent for the chemical weapons stockpile and for conventional ammunition.

To develop, buy and maintain materiel for the Army, AMC works closely with Program Executive Offices, the Army acquisition executive, industry, academia and other related agencies. AMC also handles the majority of the Army's contracting including a full range of contracting services for deployed units and installation-level services, supplies, and common-use information technology hardware and software. With the only contingency contracting capability in DOD, AMC accounts for 70 percent of the Army's contract dollars.

The command leads, manages and operates the Army's Organic Industrial Base. Consisting of 23 one-of-a-kind facilities, the OIB overhauls, modernizes and upgrades major weapons systems – not just making them like new, but in-

serting technology to make them better and more reliable. The OIB manufactures and resets our Army's equipment, directly generating readiness and operational capability in our brigades and throughout the Army's formations.

AMC is regionally aligned and globally responsive, providing assets through a team of teams that includes Army Field Support Brigades, Contracting Support Brigades, Transportation Brigades, and Field Assistance Science and Technology Teams, all of which identify and resolve equipment and maintenance problems, and materiel readiness issues for Combatant Commands. The command handles diverse missions that reach far beyond the Army. For example, AMC manages the multibillion-dollar business of selling Army equipment and services to partner nations and allies of the United States, and negotiates and implements agreements for co-production of U.S. weapon systems by foreign nations. AMC includes global transportation experts who provide the warfighter with a single surface distribution provider for adaptive solutions that deliver capability and sustainment on time.

The AMC S&T program develops, integrates and sustains unique science, technology and engineering solutions to ensure the Army and Joint Forces have a competitive advantage. AMC is on the front lines of modernization, innovation and transformation. Managing a comprehensive S&T portfolio averaging \$6.5 billion annually (includes reimbursables), representing about 75 percent of the Army's annual investment in S&T, AMC plays a critical role in the research, design and development for every item a Soldier wears, drives, flies, communicates with, or operates on the battlefield.

AMC MAJOR SUBORDINATE COMMANDS:

- Army Contracting Command at Redstone Arsenal, Alabama
- Aviation and Missile Life Cycle Management Command at Redstone Arsenal, Alabama
- Army Sustainment Command at Rock Island Arsenal, Illinois
- Communications-Electronics Life Cycle Management Command at Aberdeen Proving Ground, Maryland
- Joint Munitions Command at Rock Island Arsenal, Illinois/ Joint Munitions and Lethality Life Cycle Management Command at Picatinny Arsenal, New Jersey
- Military Surface Deployment and Distribution Command at Scott Air Force Base, Illinois
- Research, Development and Engineering Command at Aberdeen Proving Ground, Maryland
- Tank-automotive and Armaments Life Cycle Management Command at Warren, Michigan
- U.S. Army Security Assistance Command at Redstone Arsenal, Alabama

FIND OUT MORE

U.S. Army Materiel Command
4400 Martin Road
Redstone Arsenal, AL 35898

www.army.mil/info/organization/unitsandcommands/commandstructure/amc

 /ArmyMaterielCommand

 @hqamc

 /Army Materiel Command Headquarters



HOW TO DO BUSINESS WITH THE ARMY

The U.S. Army Materiel Command relies on industry and partnerships to deploy, equip and sustain the warfighter. AMC's Office of the Ombudsman, overseen by Jesse Barber, is the liaison between the Army and industry. The following steps can be used as a guide to doing business with the Army.



1. DETERMINE THE PRODUCT OR SERVICE

In order to correctly differentiate between marketing strategies and individual customers with specific needs, Federal Supply Classification Codes (FSC) are used to group products into logical families for management purposes. The four-digit fields are used to group standardization documents and their products. The FSCs are listed here: <http://everyspec.com/FSC-CODE>

2. ACQUIRE A CAGE CODE OR DUNS NUMBER

The Defense Logistics Information Service will provide, upon request, a CAGE (Commercial and Government Entity) Program Code at URL <https://cage.dla.mil/>. A Data Universal Number System (DUNS) number is also required and may be obtained from Dun and Bradstreet by calling **1-800-333-0505** or **610-882-7000**.

3. KNOW WHICH DIVISION OF THE ARMY WOULD BUY A PRODUCT OR SERVICE

Billions of dollars are expended annually in support of the Army's mission. Most of the Army's buying activities make purchases in support of their individual base requirements and are considered local buys. Small Business Specialists are assigned to individual geographic areas and may be located here: <https://www.amc.army.mil/amc/smallbusiness.html>

A brief written summary of products and services may be required. The major Army Commands also have contractual responsibilities, depending upon their mission requirements. http://acc.army.mil/smallbusiness/contact_smallbusiness.html

4. DETERMINE IF THE GOVERNMENT PURCHASE CARD CAN BE ACCEPTED

Certain personnel at each installation are authorized to use government purchase cards (also known as IMPAC cards) to buy supplies and services valued at \$2,500 or less. Some activities may be able to provide a listing of the purchase card holders who can directly market products or services.

5. RESEARCH CUSTOMERS

As with any customer, it is best to do some research about the activity before contacting them. Many Army activities maintain their own websites, and this information may be helpful in identifying the primary mission of that command.

- U.S. Army Materiel Command (AMC) – www.army.mil/amc/about.html
- Space & Missile Defense Command/Army Forces Strategic Command (SMDC/ARSTRAT) – www.army.mil/smdc
- U.S. Army Corps of Engineers (USACE) – www.usace.army.mil
- U.S. Army Intelligence & Security Command (INSCOM) – www.army.mil/inscom
- U.S. Army Medical Command (MEDCOM) – www.army.mil/armymedicine
- U.S. Army Medical Research & Materiel Command (MRMC) – www.mrmc.amedd.army.mil
- National Guard – www.nationalguard.mil
- U.S. Army Program Executive Office for Simulation, Training and Instrumentation – www.peostri.army.mil

6. REGISTER IN THE SYSTEM FOR AWARD MANAGEMENT

In order to do business with the Army, businesses must be listed in the System for Award Management database (previously the Central Contractor Registration). This registration must be completed prior to award of any contract or agreement. This registration can be accomplished online at <https://www.sam.gov/portal/SAM/#11>.

With any change in status, companies should update their SAM information; e.g., if a company attains 8(a) status.

ABOVE: Maj. Gen. Bruce T. Crawford addresses members of industry at a recent Advanced Planning Briefing for Industry held at Aberdeen Proving Ground. U.S. Army photo)

7. SEEK ADDITIONAL ASSISTANCE IN THE DEFENSE MARKETPLACE

Doing business with an organization as large as DOD can be daunting. The Procurement Technical Assistance Centers (PTACS) (<http://www.aptac-us.org/>) are another important resource. These centers are located in most states and partially funded by DOD to provide small business with information on how to do business with DOD. They provide in-depth counseling on marketing, financial and contracting issues to small business concerns at minimal or no cost.

8. INVESTIGATE OTHER SMALL BUSINESS ADMINISTRATION (SBA) RESOURCES

In addition, the SBA offers assistance through their Small Business Development Centers (www.sba.gov/tools/local-assistance/sbdc), Service Corps of Retired Executives (SCORE) and regional SBA offices, which can provide information on loan programs, government procurements and the Section 8(a) program. The SBA's Office of Women's Business Ownership (www.sba.gov/offices/headquarters/wbo) and the Online Women's Business Center (archive.sba.gov/aboutsba/sbaprograms/onlinewbc/index.html) are special resources developed specifically to meet the needs of businesses owned by women.

9. PURSUE SUBCONTRACTING OPPORTUNITIES

Regardless of the product or service, a very large secondary market, Subcontracting Opportunities with DOD Prime Contractors (<http://www.acq.osd.mil/osbp/sb/dod.shtml>), lists all major DOD prime contractors by state and provides a point of contact (Small Business Liaison Officer) within each firm.

These firms negotiate goals with the contracting activities for subcontracting to small business concerns. This is a multi-billion dollar market that has potential opportunities with the large prime DOD contractors, most of which have websites.

Many of DOD's requirements may be beyond the scope of a single small business. Prime contractors are encouraged to subcontract and team up with small business concerns. The SBA's Sub-Net is another resource of potential subcontracting opportunities: <http://web.sba.gov/subnet/>.

10. INVESTIGATE FEDERAL SUPPLY SCHEDULES

As the acquisition workforce within the Army is downsized, more and more products and services are being purchased from General Services Administration (GSA) schedules: www.gsa.gov or 703-305-6477.

11. BECOME FAMILIAR WITH CONTRACTING REGULATIONS AND PROCEDURES

The following regulations govern contracting procedures within the Army and are available online:

- Federal Acquisition Regulation (FAR) – <https://www.acquisition.gov/far/index.html>
- The Defense Federal Acquisition Regulation Supplement (DFARS) – <http://www.acq.osd.mil/dpap/dars/dfarspgi/current/index.html>
- The Army Federal Acquisition Regulation Supplement (AFARS) (<http://farsite.hill.af.mil/VFAFARA.HTM>)

12. MONITOR FEDERAL BUSINESS OPPORTUNITIES

Federal business opportunities are posted on www.fbo.gov. This is a single point of entry for the federal government and should be monitored daily.

13. MARKETING

After the customers have been identified, their requirements researched and their procurement regulations and strategies are generally understood, the final step is to market the product or service directly.

Capabilities should be clearly and cogently presented to the Army activities and prime contractors. If the match is a good one, they can be provided with a cost-effective, quality solution to their requirements.

Additional Source: Department of the Army Office of Small Business Programs (www.sellingtothearmy.info/content/13-steps-doing-business-army)

Employees from Anniston Army Depot and General Dynamics Land Systems work on the Stryker Double-V Hull (DVH) Exchange program. Responding to an Army requirement for additional DVH vehicles and to reduce overall vehicle cost, the program changes the hull of a flat-bottom Stryker for the new DVH design. (U.S. Army photo by Mark Cleghorn)





U.S. ARMY CONTRACTING COMMAND

The U.S. Army Contracting Command, its subordinate organizations and contracting centers enables Army readiness through contracting solutions in support of the Army and Unified Land Operations, anytime, anywhere. As the Army's principal buying agent, ACC ensures Soldiers have what they need to be successful, from food and clothing to bullets and bombs.

PRIMARY LOCATIONS

- Headquarters and ACC-RSA - Redstone Arsenal, Alabama
- ACC - Aberdeen, Aberdeen Proving Ground, Maryland
- ACC - New Jersey, Picatinny Arsenal, New Jersey
- ACC - Orlando, Orlando, Florida
- ACC - Rock Island, Rock Island Arsenal, Illinois
- ACC - Warren, Detroit Arsenal, Michigan
- MICC - Joint Base San Antonio-Fort Sam Houston, Texas

INTRODUCTION

Headquartered at Redstone Arsenal in Alabama, ACC is a major subordinate command of U.S. Army Materiel Command. ACC has one subordinate one-star command - Mission and Installation Contracting Command (MICC), for locations inside the continental United States - and six major contracting centers that provide support to AMC's life cycle management commands.

From food and clothing to bullets and bombs; from tanks and trucks to boats and aircraft; from their weapons to the installations where they work and live with their families, ACC ensures U.S. Soldiers have what they need to be successful.

As the Army's principal buying agent, ACC supports Army readiness by utilizing best practices and expert-level oversight to provide warfighters with premier contracting support. The command accomplishes its global operational missions with a professional workforce of Soldiers, Department of the Army Civilians, foreign local nationals and contractors at more than 100 locations worldwide.

ABOVE: U.S. Army contractors assist with the retrograde and descoping operations in Afghanistan at a descoping site coordinated by the 608th Engineer Detachment, Construction Management Team, 4th Resolute Support Sustainment Brigade at Bagram Airfield, Afghanistan. Contractors support U.S. global operations with more than 30,000 in Afghanistan alone. (U.S. Army photo by Sgt. Adam A. Erlewein)

OPPOSITE PAGE: Spc. Vonza Abney and Pfc. Hanook M. Chi, both parachute riggers with Task Force Lifeline, observe a contracted aircraft as it lifts up a generator during sling load operations to supply forward operating bases, at Bagram Air Field, Afghanistan. (U.S. Army photo by Sgt. Sinthia Rosario)

CONTRACTING SUPPORT BRIGADES:

- 408th Contracting Support Brigade – Shaw Air Force Base, South Carolina and Camp Arifjan, Kuwait
- 409th Contracting Support Brigade – Sembach, Germany
- 410th Contracting Support Brigade – Joint Base San Antonio-Fort Sam Houston, Texas
- 411th Contracting Support Brigade – Camp Coiner, Korea
- 413th Contracting Support Brigade – Fort Shafter, Hawaii
- 414th Contracting Support Brigade – Vicenza, Italy
- 418th Contracting Support Brigade – Fort Hood, Texas
- 419th Contracting Support Brigade – Fort Bragg, North Carolina

DIRECT REPORT BATTALION:

- 905th Contracting Battalion – Fort Bragg, North Carolina

CORE COMPETENCIES

- Contracting
- Acquisition
- Procurement
- Operations
- Foreign Military Sales
- Quality Assurance
- Life Cycle Management

CAPABILITIES & MISSION EXECUTION

ACC ensures contracting support to the Soldier as mission requirements emerge and as the Army transforms and operates within the continental United States and around the globe.

As an international business enterprise, ACC executes more than 160,000 contracts each fiscal year, averaging around 70 percent of the Army's contract dollars. ACC accomplishes this with more than 6,000 military and civilian employees.

In support of Army and joint forces, ACC provides effective and agile contracting service across the full spectrum of military operations for U.S. Army Service Component Commanders, as well as other defense organizations at loca-

tions outside the continental United States. It has eight contracting support brigades, 13 contracting battalions and 68 contracting teams stationed throughout the world.

ACC supports approximately 180 expeditionary missions in 50 countries each year. A combat multiplier, ACC has the capability to deploy anywhere in the world on short notice to provide operation contract support planning, contract policy and oversight, contract execution, contract administration and contract surveillance in support of deployed forces.

Since 2015, ACC has maintained a forward presence in Afghanistan to ensure the right services are provided to U.S. forces in their support of Operations Freedom's Sentinel and Resolute Support.

The MICC provides contracting support for Soldiers across Army commands, installations and activities located in the continental United States and Puerto Rico. The customer base for the MICC includes the U.S. Army Forces Command, U.S. Army Training and Doctrine Command, U.S. Army North, U.S. Army Reserve Command and U.S. Army Medical Command. The MICC consists of a field directorate office and 32 field offices.

With a wealth of contracting expertise, ACC professionals are dedicated to providing the highest quality of contracting support to all of their customers, whenever and wherever needed. A combat multiplier, ACC is doing its part to keep the Army strong.

HISTORY

While military and Army contracting go back to the early days of the Union, ACC was only officially established in 2008 in an effort to help meet the expanding workload being handled by Army contracting personnel during wars in Afghanistan and Iraq.

Even its brief history, ACC has shown the organization's commitment to improving support for the Army, America's allies and those in need of humanitarian support.

FIND OUT MORE

U.S. Army Contracting Command
4505 Martin Road
Redstone Arsenal, AL 35898

www.army.mil/acc

 /ArmyContracting

 @ArmyContracting

 /ArmyContractingCommand

U.S. ARMY MISSION AND INSTALLATION CONTRACTING COMMAND

PRIMARY LOCATIONS

- Joint Base San Antonio-Fort Sam Houston, Texas – Headquarters
- 418th Contracting Support Brigade, Fort Hood, Texas
 - 901st Contracting Battalion/ Fort Hood, Texas
 - 902nd Contracting Battalion/ MICC-Joint Base Lewis-McChord, Washington
 - 918th Contracting Battalion/ MICC-Fort Carson, Colorado
 - 919th Contracting Battalion/ MICC-Fort Bliss, Texas
 - MICC-Fort Irwin, California
- 419th Contracting Support Brigade, Fort Bragg, North Carolina
 - 900th Contracting Battalion/ MICC-Fort Bragg, North Carolina
 - 904th Contracting Battalion/ MICC-Fort Stewart, Georgia
 - 922nd Contracting Battalion/ MICC-Fort Campbell, Kentucky
 - 925th Contracting Battalion/ MICC-Fort Drum, New York
- MICC-Fort Belvoir, Virginia
- MICC-Fort Polk, Louisiana
- FDO-Fort Knox, Kentucky
 - MICC-Fort Jackson, South Carolina
 - MICC-Fort McCoy, Wisconsin
 - MICC-Moffett Field, California
 - MICC-Fort Sam Houston, Joint Base San Antonio-Fort Sam Houston, Texas



ABOVE: Maj. Jason Brotherton reviews contracting documents as part of his duties working for the Mission and Installation Contracting Command-Fort Sam Houston contracting office at Joint Base San Antonio-Fort Sam Houston, Texas. (U.S. Army photo by Ryan Mattox)

The U.S. Army Mission and Installation Contracting Command (MICC) supports Soldiers and their families in the continental United States and Puerto Rico by providing Army commands, installations and activities with disciplined and responsive contracting solutions and oversight.

INTRODUCTION

The MICC, a one-star command under U.S. Army Contracting Command, has a workforce of more than 1,500 military and civilian members who are assigned to three contracting brigades, one field directorate office and 31 contracting offices that provide contracting support across the Army.

MICC supports warfighter readiness by acquiring equipment, supplies and services vital to the Army mission and well-being of Soldiers and their families. The command also supports the Army's contingency and wartime missions by

- FDO-Fort Eustis, Joint Base Langley-Eustis, Virginia
 - MICC-Carlisle Barracks, Pennsylvania
 - MICC-Fort Eustis, Joint Base Langley-Eustis, Virginia
 - MICC-Fort Leavenworth, Kansas
 - MICC-Fort Lee, Virginia
 - MICC-Fort Leonard Wood, Missouri

rapidly deploying trained and ready contingency contracting Soldiers around the world to procure goods and services in austere environments.

MICC-contracted services and supplies touch virtually every Soldier in the Army in some way, including: facilities support services, commercial and institutional building construction, administrative and general management consulting services, wired telecommunication and engineering services, contracted food services, advertising and transition services. The MICC ensures America's Soldiers and their families have what they need during and after military service.

The MICC's primary supported activities include the U.S. Army Forces Command, U.S. Army Training and Doctrine Command, U.S. Army North, U.S. Army Installation Management Command, U.S. Army Test and Evaluation Command, U.S. Army Reserve Command, U.S. Army Military District of Washington, U.S. Army Medical Command and the United States Military Academy at West Point.

CAPABILITIES & MISSION EXECUTION

MICC is charged to be the most efficient and effective contracting organization in order to meet the needs of its customers and military partners. It focuses its resources and expertise on the timely award of contracted solutions.

Contracting Soldiers from across the command play a vital operation role in support of Combatant Commanders. MICC members provide operation contract support in a variety of roles, support peacekeeping missions and humanitarian outreach around the globe.

With a wealth of contracting expertise, MICC professionals are dedicated to providing the highest quality of contracting support to all of their customers, whenever and wherever needed. The responsive contracting solutions and oversight provided by the MICC serve as a force multiplier for keeping the Army strong.

FIND OUT MORE

U.S. Army Mission and Installation Contracting Command
 2219 Infantry Post Road
 Bldg 606
 Fort Sam Houston, Texas 78234-1361

www.army.mil/micc

 /Army.MICC

 /MissionandInstallationContractingCommand

U.S. ARMY CONTRACTING COMMAND- ABERDEEN PROVING GROUND

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland – Headquarters
- Adelphi Division, Maryland
- Natick Division, Massachusetts
- Research Triangle Park Division, North Carolina
- Belvoir Division, Virginia
- Huachuca Division, Arizona

CORE COMPETENCIES

Comprehensive contracting, business advisory support and sustained expertise for:

- Research and Development
- Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance
- Cybersecurity
- Test and Evaluation
- Chemical and Biological Defense
- Soldier Protection



U.S. Army Contracting Command-Aberdeen Proving Ground (ACC-APG) provides responsive, efficient, cost-effective and compliant contracts and business solutions to ensure customer mission success in support of national defense and homeland security.

INTRODUCTION

Headquartered at Aberdeen Proving Ground, ACC-APG provides comprehensive contracting and business advisory support to a diverse customer base. ACC-APG provides sustained expertise in all areas of contracting, including research and development, production and testing, installation and base operations, systems and system support, depot-level maintenance, fielding and sustaining Army weapon systems, Foreign Military Sales, grants, cooperative agreements and other transactions.

These acquisitions consist of a wide range of products and services, to include state-of-the-art technology and complex weapon systems. The mission support services provided by ACC-APG are crucial to equip the Soldier with the latest technology, goods and services, on time and at a reasonable cost.

ACC-APG is comprised of 12 contracting divisions with associate directors providing oversight for Soldier, chemical, research and test, and the command, control, communications, computers, intelligence, surveillance and reconnaissance organizational components.

CAPABILITIES & MISSION EXECUTION

ACC-APG provides customers with contracting expertise from an employee base of nearly 900 military and civilian contracting professionals. The workforce embodies ACC-APG's vision to be a premier contracting center viewed by its customers as superior and recognized throughout the Department of Defense as "best-in-class."

ABOVE: Dr. Krista Limmer, a scientist with the U.S. Army Research Laboratory, hopes to discover technology solutions to mitigate magnesium alloy corrosion using supercomputer modeling. The Army Contracting Command-Aberdeen supports contracting efforts for the U.S. Army Research Laboratory and other DOD organizations in a variety of competency areas. (U.S. Army photo by David McNally)

FIND OUT MORE

ACC-APG
6001 Combat Dr.
APG North, MD 21005

www.army.mil/acc

U.S. ARMY CONTRACTING COMMAND-NEW JERSEY

PRIMARY LOCATIONS

- Picatinny Arsenal, New Jersey – Headquarters
- Joint Base McGuire-Dix-Lakehurst, New Jersey

Soldiers with Battery C, 1st Battalion, 320th Field Artillery Regiment, Task Force Strike, load a round into M777 artillery piece to support the Iraqi security forces during the Mosul counter offensive in northern Iraq. Army Contracting Command-New Jersey provides the full spectrum of contracting and acquisition support for a variety of military efforts, including for major weapon, armament and ammunition systems. (U.S. Army photo by 1st Lt. Daniel Johnson)



U.S. Army Contracting Command-New Jersey (ACC-New Jersey) plans, directs, controls, manages and executes the full spectrum of contracting, acquisition support and business advisory services in support of major weapons, armaments, ammunition systems, information technology and enterprise systems for the Army and DOD.

INTRODUCTION

ACC-New Jersey, with locations at Picatinny Arsenal and Joint Base McGuire-Dix-Lakehurst, has a broad customer base with both on-site and globally remote customers. It supports all phases of research and development through initial and follow-on production.

The command utilizes the full spectrum of contract types and contract instruments in support of its customers, with an emphasis on cost and fixed price incentive-type contracts. They also have unique expertise with executing grants, cooperative agreements, and other transaction agreements. ACC-New Jersey has the largest Other Transaction Agreement (OTA) mission in the Army.

ACC-New Jersey's flexible organization allows for easy deployment of personnel and appropriate skill sets to accommodate customer demand.

CAPABILITIES & MISSION EXECUTION

ACC-New Jersey's expertise in executing and managing OTAs in support of Army and Department of Defense requirements has earned it the designation as the Army's Center of Excellence for OTAs.

Of the organization's 300-plus civilian associates, 100 percent have a bachelor's degree, 32 percent have completed postgraduate degrees, and 99.7 percent are Defense Acquisition Workforce Improvement Act certified. The organization's contracting teams are integrated within contracting centers across the command, where every Soldier receives training and the contracting experience required to successfully support contingency operations.

FIND OUT MORE

ACC-NJ
Bldg. 1610
Picatinny Arsenal, NJ 07806

www.army.mil/acc

U.S. ARMY CONTRACTING COMMAND-ORLANDO

LOCATION

- Orlando, Florida

The contracting support services provided by ACC-Orlando provide Soldiers with the latest in live, virtual, constructive and gaming training simulation and instrumentation, goods and services. (U.S. Army photo by David Kamm)



U.S. Army Contracting Command-Orlando (ACC-Orlando) provides business advice and tailored contracting solutions to acquire a variety of products and services managed by its primary customer, the Program Executive Office for Simulation, Training and Instrumentation (PEO STRI) in support of the U.S. Army.

INTRODUCTION

ACC-Orlando is a \$2 billion acquisition agency and contracting center of excellence that focuses on customer satisfaction and promotes innovative and flexible business practices such as calculated risk-taking, empowerment, and partnering with industry, and emphasizes diversity in the workforce and professional development.

The organization consists of government civilians, military personnel and contractor teams. It is an integral member of Team Orlando, which consists of military, industry and academia working together in the world of training and simulation.

ACC-Orlando acquisition support consists of procuring a wide range of training testing products and services to include non-system and system training aids, devices, simulators and simulations (TADSS); operations, maintenance and service support for non-system and system TADSS, test range instrumentation, ground and aerial targets; and services and threat systems for the Army.

CAPABILITIES & MISSION EXECUTION

ACC-Orlando is comprised of four contracting divisions and a source selection center of excellence. Its staff is focused on policy, cost and pricing, systems, business operations, and plans and operations. It provides Soldiers with the latest live, virtual, constructive and gaming training simulation and instrumentation, goods and services, on time and at the best value for the government.

ACC-Orlando's primary contract vehicles are the Warfighter Field Operations Customer Support contract that provides live, virtual, constructive and gaming training operations support; the PEO STRI Omnibus contract that provides training products and services; and the Systems Engineering and Technical Assistance contract that provides support services to the PEO.

FIND OUT MORE

ACC-ORL
12211 Science Dr.
Orlando, FL 32826

www.army.mil/acc

U.S. ARMY CONTRACTING COMMAND-REDSTONE

PRIMARY LOCATIONS

- Redstone Arsenal, Alabama – Headquarters
- Corpus Christi Army Depot, Texas
- Fort Rucker, Alabama
- Joint Base Langley-Eustis, Virginia
- Kwajalein Atoll, Republic of the Marshall Islands
- Leterkenny Army Depot, Pennsylvania
- Peterson Air Force Base, Colorado



U.S. Army Contracting Command-Redstone (ACC-RSA) supports Soldiers around the globe by contracting for major weapon systems production and services vital to the warfighters' mission, readiness and well-being.

INTRODUCTION

ACC-RSA provides support to the U.S. Army Materiel Command; Aviation and Missile Command; Program Executive Office (PEO) Missiles and Space; PEO Aviation; Aviation and Missile Research, Development and Engineering Center; Redstone Arsenal-Garrison; Test, Measurement, and Diagnostic Equipment Activity; Space and Missile Defense Command; and the Department of Defense Counter-narcoterrorism Technology Program Office. ACC-RSA also provides contracting support to several other program executive offices and program managers supporting the U.S. Army's major acquisition programs.

The organization's civilians and Soldiers support warfighters worldwide by contracting for research and development, major weapon systems production, sub-systems, and services vital to Soldier readiness.

From helicopters to missiles, systems engineering and technical assistance, research and development to technology and engineering, ACC-RSA ensures Soldiers have what they need to be successful. Other areas of contracting support include counter-narcotics deterrence, Foreign Military Sales, contingency, range and operational support, in addition to concept development, prototyping and limited production capability.

CAPABILITIES & MISSION EXECUTION

ACC-RSA offers the contracting expertise of some of the best-trained people in the Army, ready to support the Soldier while ensuring responsible stewardship of taxpayers' funds. The organization's 800 military and civilian personnel ensure contracting support to the warfighter as mission requirements emerge and as the Army transforms and moves within the continental United States and around the globe.

FIND OUT MORE

ACC-RSA
Bldg. 5303
Redstone Arsenal, AL 35898

www.army.mil/acc

Armed with HELLFIRE missiles, Col. A.T Ball, 25th Combat Aviation Brigade Commander flies a Kiowa (OH-58) during a mission in the area of Kirkuk, Iraq. (U.S. Army photo by Spc. Bryanna Poulin)

U.S. ARMY CONTRACTING COMMAND—ROCK ISLAND

PRIMARY LOCATIONS

- Rock Island, Illinois
- Blue Grass Army Depot, Kentucky
- Pueblo Army Depot, Colorado

Army Contracting Command-Rock Island provides the full spectrum of contracting support to a diverse customer base, including for the Surface Deployment and Distribution Command. (U.S. Army photo by Sarah Garner)



U.S. Army Contracting Command-Rock Island (ACC-RI) provides worldwide procurement support to Soldiers, civilians and contractors located at the historic Rock Island in the middle of the Mississippi River.

INTRODUCTION

ACC-RI supports U.S. Army and DOD readiness by providing worldwide procurement support to Soldiers, civilians and contractors. ACC-RI has the talent and capability to execute and administer contracts in support of Army requirements anywhere around the world. ACC-RI employs more than 550 people managing contracts valued at more than \$70 billion.

The center provides a full spectrum of contracting support to a diverse customer base including the U.S. Army Sustainment Command; Joint Munitions & Lethality Life Cycle Management Command; Joint Manufacturing and Technology Center; Joint Munitions Command; Program Executive Office Ammunition (PEO); PEO Enterprise Information Systems; PEO Aviation (Project Manager Apache); PEO Assembled Chemical Weapons Alternatives; Military Surface Deployment and Distribution Command; Installation Management Command; and the Office of the Program Manager, Saudi Arabian National Guard.

ACC-RI provides acquisition support to: U.S. Army Central; U.S. Forces Afghanistan; U.S. Central Command; State Department; Department of the Army Chief Information Officer/G6; Joint Service Provider; Department of the Army G-4; Joint Program Lead Elimination; Material Management Center; U.S. Marine Corps Forces Central Command; U.S. Air Forces Central Command; U.S. Naval Forces Central Command; Coalition Joint Task Force 101; Office of Security Cooperation-Iraq; Combined Security Transition Command; U.S. Army Deputy Assistant Secretary of the Army for Procurement; U.S. Army Security Assistance Command; 1st Army; Rock Island Garrison; U.S. Army Human Resources Command; U.S. Army Recruiting Command; Office of the Administrative Assistant to the Secretary of the Army; Institute of Heraldry; and Foreign Military Sales.

CAPABILITIES & MISSION EXECUTION

ACC-RI is organized into 10 divisions reflecting the support it provides to a diverse mission set: ammunition/chemical demilitarization, installations, information technology, technology and logistics, Logistics Civil Augmentation Program, global reach back, sustainment, business operations, contracting support and contract pricing.

Although ACC-RI is headquartered on Rock Island Arsenal, ACC-RI contracting officers and staff members are located offsite at chemical demilitarization facilities at Blue Grass, Kentucky, and Pueblo, Colorado.

ACC-RI also has contracting oversight responsibilities for installation mission support at locations including: Blue Grass Army Depot, Kentucky; Crane Army Ammunition Activity, Indiana; McAlester Army Ammunition Plant (AAP), Oklahoma; Pine Bluff Arsenal, Arkansas; and Tooele Army Depot, Utah.

The center also manages personnel at offsite locations supporting the ammunition mission: Hawthorne Army Depot, Nevada; Holston AAP, Tennessee; Iowa AAP, Iowa; Milan AAP, Tennessee; Lake City AAP, Missouri; Radford AAP, Virginia; and Scranton AAP, Pennsylvania.

ACC-RI has trained a cadre of military personnel to deploy on a rotational basis to Kuwait in support of contract administration.

FIND OUT MORE

ACC-Rock Island
1 Rock Island Arsenal
Rock Island, IL 61299-5000

www.army.mil/acc

U.S. ARMY CONTRACTING COMMAND-WARREN

PRIMARY LOCATIONS

- Warren (Detroit Arsenal), Michigan – Headquarters
- Anniston Army Depot, Alabama
- Red River Army Depot, Texas
- Sierra Army Depot, California
- Watervliet Arsenal, New York
- Fort Belvoir, Virginia



U.S. Army Contracting Command-Warren (ACC-WRN) provides global contracting support to Soldiers through the full spectrum of military operations.

INTRODUCTION

ACC-WRN, aligned and co-located with the U.S. Army Tank-automotive and Armaments Command (TACOM), provides comprehensive acquisition, contracting, business advisory, production support and depot-level maintenance services.

The center supports Army readiness by ensuring the best products reach Soldiers when they need them, while providing fair opportunity for industry, including small businesses, and obtaining the best value for the Army and other services.

Major customers for the organization include Program Executive Office (PEO) Ground Combat Systems; PEO Combat Support and Combat Service Support; System of Systems Engineering and Integration Directorate; PEO Soldier; PEO Ammo; Joint PEO for Chemical Biological Defense; Program Manager Light Armored Vehicle; TACOM Integrated Logistics Support Center; Research, Development and Engineering Command; U.S. Army Tank Automotive Research, Development and Engineering Center; Installation Management Command; TACOM Security Assistance Management Directorate; Army Headquarters services; Army Center of Military History; Center for Army Analysis; and other services for the Marine Corps, the Navy and the Air Force.

CAPABILITIES & MISSION EXECUTION

ACC-WRN employs approximately 600 associates and manages more than \$33 billion in active contracts.

The center supports warfighters by procuring systems, research and development, repair parts and services. This includes, but is not limited to: combat and tactical vehicles; construction and material-handling equipment; concept, research and development efforts; fuel and water distribution systems; small arms and targetry; fire control systems; chemical defense equipment; logistics and general support; base operations support and depot maintenance; public-private partnerships; sets, kits, outfits and tools; and more.

FIND OUT MORE

ACC-Warren
6501 E. Eleven Mile Road
Warren, MI 48397-5000

www.army.mil/acc

Vehicles from Coldsteel Troop, 1st Squadron, 11th Armored Cavalry Regiment engage an AH-64 Apache helicopter from the 1st Stryker Brigade Combat Team, 4th Infantry Division near the John Wayne Foothills, National Training Center. (U.S. Army photo by Pfc. Austin Anyzeski)



U.S. ARMY AVIATION AND MISSILE COMMAND

The U.S. Army Aviation and Missile Command (AMCOM) develops, acquires, fields and sustains aviation, missile and unmanned vehicle systems. The Command delivers responsive aviation, missile and calibration materiel readiness to the U.S. Army in order to optimize joint warfighter capabilities at the point of need.

PRIMARY LOCATIONS

- Headquarters, Redstone Arsenal, Alabama
- Corpus Christi Army Depot, Corpus Christi, Texas
- Letterkenny Army Depot, Chambersburg, Pennsylvania

CORE COMPETENCIES

- Support to acquisition
- Sustainment logistics
- Organic Industrial Base
- Field/sustainment maintenance
- Calibration
- Security assistance
- Research, development and engineering
- Contracting
- Supports supply, maintenance, calibration and security assistance missions at multiple locations in the U.S. and overseas

INTRODUCTION

As a life cycle management command, AMCOM is dedicated to integrating engineering, logistics and contracting into the acquisition process to support the product life cycle management efforts of 16 aviation and missile project managers (PMs). AMCOM accomplishes this mission by partnering with the Army Contracting Command-Redstone and the Aviation and Missile Research, Development and Engineering Center to deliver the contracting, engineering and logistics expertise needed by the supported PMs.

AMCOM is a values-based organization – people first, Soldiers always – enabling readiness to meet the emerging global requirements of the joint force. The command's 9,000 employees perform a wide variety of missions in support of the nation's aviation and missile warfighters at 77 different locations in the U.S., and in 33 overseas locations in 11 different countries.

CAPABILITIES & MISSION EXECUTION

AMCOM's critical missions include:

- Aviation and missile systems reset;
- Supply chain and item management;

ABOVE: An AH-64 Apache files in Afghanistan. (U.S. Army photo)

OPPOSITE PAGE: Brian Lane, left, and Kelly Collins work on rotor maintenance for a Black Hawk helicopter at the U.S. Army Aviation and Missile Command's Aviation Center Logistics Command at Fort Rucker, Alabama. (U.S. Army photo)

- Publications support;
- Test measurement and diagnostic equipment calibration;
- Backup maintenance support to units;
- Depot-level maintenance repair and fabrication;
- Crash and battle damage repair to helicopters; and
- Logistics assistance.

The command supplies highly trained Logistics Assistance Representatives to units, while providing expert safety assessments of existing and new systems. AMCOM also performs the supply and maintenance missions for Army schools that train Soldiers to fly and use aviation and missile equipment.

AMCOM operates two Army depots: Corpus Christi Army Depot (CCAD) in Texas, and Letterkenny Army Depot (LEAD) in Pennsylvania. CCAD supports the repair and overhaul of aircraft and aviation systems, and LEAD provides the same support to missile systems. The Secretary of the Army has designated both depots as Centers of Industrial and Technical Excellence (CITE).

In addition, the Aviation Center Logistics Command (ACLC) provides the supply and maintenance support to the U.S. Army Aviation Center of Excellence at Fort Rucker, Alabama. This mission is critically important to the long-term readiness of the Army. Since every Army aviator learns to fly at Fort Rucker, every type of Army helicopter is there. ACLC keeps hundreds of aircraft operationally ready for flight training missions with a team of Soldiers and civilian employees who supervise the performance of more than 3,500 contractor mechanics, supply specialists and pilots.

AMCOM's U.S. Army Test Measurement and Diagnostic Equipment Activity (USATA) manages the Army's metrology and calibration program, which ensures that all Army test and measurement equipment supporting Soldiers worldwide is calibrated accurately.

The AMCOM Logistics Center manages multiple logistics programs in support of all AMCOM missions and strives to achieve "Cost-wise Readiness" to ensure Soldiers receive the support they need. The AMCOM staff provides critical expertise to all of these efforts in diverse fields such as acquisition law, safety, security and environmental compliance.

The Security Assistance Management Directorate executes a multibillion-dollar security assistance mission that provides U.S. aviation and missile equipment to allies and partner nations.

HISTORY

AMCOM can trace its history to the early days of missile development at Redstone Arsenal in the 1950s, and the nucleus of its organizations produced the experienced teams that became NASA's Marshall Space Flight Center, the Army Space and Missile Defense Command and the Defense Intelligence Agency's Missile and Space Intelligence Center. AMCOM was officially formed Oct. 1, 1997, by merging the Aviation and Troop Support Command with the Missile Command, and proudly continues the tradition of excellence that was the cornerstone of its predecessor organizations.

The AMCOM LCMC at Redstone Arsenal was formed in October 2004 to transform from a concept to an integrated, closely aligned organization with a single commander who has the primary responsibility for the life cycle of all the Army's aviation and missile weapon systems.

FIND OUT MORE

U.S. Army Aviation and Missile Command
 Redstone Arsenal, Bldg. 5300
 5300 Martin Road
 Redstone Arsenal, AL 35898-5000

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 [/user/USARMYAMCOM](https://www.youtube.com/user/USARMYAMCOM)



AVIATION CENTER LOGISTICS COMMAND

PRIMARY LOCATIONS

- Fort Rucker, Alabama
- Fort Benning, Georgia

Steve Stephenson, left, and Kevin Powell work on a Chinook helicopter engine repair in the ACLC's Aircraft Component Repair shop. (U.S. Army photo)



The Aviation Center Logistics Command (ACLC) provides full spectrum maintenance, supply and contractor oversight to ensure availability for all aviation training mission requirements in support of Army aviation training objectives.

INTRODUCTION

Since 1955, the government has relied on what is known today as the ACLC, a U.S. Army Aviation and Missile Command subordinate. The ACLC works to ensure that the Army's fleet of helicopters is always ready to complete the Army Aviation Center for Excellence training mission. This mission is essential when more than 600 helicopters in 12 different aircraft configurations can be in flight at any given time to meet Army requirements. On any given day, more than 150 Department of Army Civilians and military quality assurance specialists oversee the work for more than 3,000 contractor employees.

ACLC's uniquely qualified workforce supports more than 500 training missions from six airfields (five at Fort Rucker and one at Fort Benning), 72 remote training sites, 17 stage fields, three remote refueling stations and one firing range. The government team completes about 5,000 aircraft inspections annually in support of more than 200,000 flight hours each year.

CAPABILITIES & MISSION EXECUTION

An average of 2,500 aviators go through the aviation training program at Fort Rucker each year, which amounts to about 25 percent of all Army aviation flight time.

The ACLC oversees maintenance on a \$1.98 billion, five-year aviation maintenance services contract for two helicopter fleets meeting different training missions – one for training pilots in basic warfighting skills and the other to

train advanced skills specific to each helicopter employed by today's Combatant Commands.

A variety of capabilities ensure that ACLC can provide Soldier pilots with the best possible support, including the Aviation Maintenance Complex at Fort Rucker which offers more than 130,000 square feet of maintenance and repair capabilities. The facility features more than 20 shops, including welding, painting, fabric, engine, avionics, hydraulics and sheet metal.

FIND OUT MORE

USAACE and Fort Rucker
Building 131
Fort Rucker, AL 36362

<http://www.rucker.army.mil/tenants/aclc/>

CORPUS CHRISTI ARMY DEPOT

LOCATION

- Naval Air Station Corpus Christi, Corpus Christi, Texas

CORE COMPETENCIES

- Overhaul and repair helicopters and components for the U.S. Army; U.S. Air Force; U.S. Navy; U.S. Marine Corps; U.S. Department of Homeland Security, Customs and Border Protection; and U.S. Department of State through Foreign Military Sales
- Maintain a wide range of component test facilities to repair various systems, equipment and instruments

ABOVE: The cockpit of a Black Hawk is covered in protective plastic in preparation for painting at Corpus Christi Army Depot in Texas. (U.S. Army photo by Sgt. Michael Zuk)



Corpus Christi Army Depot (CCAD) ensures aviation readiness for the U.S. Army and other DOD organizations through overhaul, repair, modification, recapitalization, retrofit, testing and modernization of helicopters, engines and components for UH-60 Black Hawk, AH-64 Apache, CH-47 Chinook and HH-60 Pave Hawk.

INTRODUCTION

CCAD returns rotary-wing aircraft and components to the DOD and other government organizations with uncompromising quality, at the lowest possible cost, in the shortest amount of time possible. While 30 percent of the total workload is aircraft, the majority of depot production (70 percent) is component repair, which includes transmissions and gearboxes, rotor blades, rotor head controls, engines, engine components, hydromechanical units and avionics. The depot extends this capacity to the U.S. Army Aviation Center of Excellence at Fort Rucker, Alabama, where it provides CCAD on-site depot support. Mobile support is also available worldwide through on-site field evaluation, maintenance and repair teams. LCAD is situated on more than 158 acres and has 2.2 million square feet of industrial space. The depot is a subordinate of the U.S. Army Aviation and Missile Command.

CORPUS CHRISTI ARMY DEPOT *Continued*

Global reach is similarly achieved through the Army's accident investigation processes with the materials expertise and laboratory analysis available from CCAD's chemists and analysts. As a premier helicopter repair facility in the Army's Organic Industrial Base, the Corpus Christi Army Depot serves as an ideal training base for active-duty Army, National Guard and Reserve Soldiers specializing in helicopter maintenance and repair.

CAPABILITIES & MISSION EXECUTION

CCAD is the premier helicopter repair facility and the largest tenant organization on Naval Air Station Corpus Christi. With a workforce of more than 3,500 Soldiers, Reservists, civilians and contractors, CCAD is one of the largest industrial employers in the South Texas region. Offering virtually year-round ideal weather for flight-testing, the depot is DOD's primary facility for joint service rotary-wing maintenance and repair. The facilities include extensive test and maintenance, and hangars. The vast installation includes a wide range of engine, transmission and gearbox test cells, multiple rotor blade whirl towers, flight controls and control surfaces, aviation engines, aviation transmissions and hydraulic systems (including subsystem accessory components), electronics, support equipment (less avionics), and a Level Two bearing reclamation facility. CCAD has espoused a Lean Six Sigma culture and a drive for continuous improvement in its workforce. During the past few years, the workforce has reduced the cost and improved production on the UH-60 Black Hawk recapitalization assembly line, as well as the HH-60 Pave Hawk production line. Additionally, the T700 and T55 engine assembly lines have dramatically increased production. CCAD has been ISO certified for more than a decade.

INDUSTRIAL SKILLS & FACILITIES

CCAD features state-of-the-art facilities and equipment that support a wide range of weapon and component systems. The depot maintains component test facilities necessary to overhaul/repair mechanical, electrical, hydraulic components, instruments, rotor blades, rotor heads, transmissions, gearboxes and turbo shaft engines.

Capabilities at a glance include:

- Cleaning and stripping;
- Welding technology;
- Bearing refurbishment;

- Metal processing;
- Test and inspection;
- Fabrication and repair;
- Coatings: Plating, Thermal Spray and Special Methods;
- Machining and milling technology;
- Corrosion prevention and painting;
- Engineering;
- Hydraulics.

Fluid Cell Press

CCAD's Fluid Cell Press forms vital parts for the UH-60, CH-47 and AH-64 aircraft in-house. This modernized press streamlines production with a continuous flow of parts in less time, at a lower cost and with higher accuracy than ever before. This gives the depot more capabilities to sustain aircraft with the fluid cell press' ability to form larger airframe parts and to press multiple parts at once at a fraction of the time. It also eliminates a number of processes and requirements that eat up production time. The new forming process maximizes efficiency by reducing turnaround time and cost by 95 percent. This recently acquired technology has revolutionized the way CCAD works. An aircraft that formerly cost \$17,000 and took more than 300 days of lead time to produce now takes only \$1,000 and a fraction of a day.

Laser Cutter

Depot artisans are a step closer to automating the entire sheet metal manufacturing process at CCAD with the addition of a laser cutter. The fixture is a high-performance linear motor that delivers rapid cutting for fast, continuous processing of quality parts. The laser cutting fixture cuts sheet metal patterns that are later formed with the fluid cell flex press or power brakes before they are put on a helicopter.

With a cutting speed of 40 meters per minute, the laser is faster than producing patterns by hand. The laser can cut through several thicknesses of different material, including plate steel, stainless steel and aluminum. Patterns are guaranteed to cut with repetitive accuracy. In the past, a sizeable product like a UH-60 bulkhead required the part to be pressed by hand in multiple sections. Now, the laser cutter can cut a pattern in as little as five minutes. The laser cutting fixture and the subsequent automation implementations will allow CCAD to schedule accurately and allow the training of a more technologically proficient workforce to meet unpredicted surges in demand.

CORPUS CHRISTI ARMY DEPOT *Continued*



The Corpus Christi Army Depot sold 40 UH-60L Black Hawks in FY2014 through its cost-saving recapitalization program. (U.S. Army photo by Ervey Martinez)

Ultrasonic Shot Peen

Prior to 2016, repairs to the UH-60 main rotor blades could not be accomplished due to space limitations at the shot peen shop. CCAD refurbished the blades at Original Equipment Manufacturing facilities which incurred a higher repair cost, along with more time spent away from the depot. The facility had the skilled artisans, but not the space, so the idea for a portable shot peen machine was born. This technology ensures what the depot is doing for the flight components meets the requirements of maintenance and overhaul standards. The ultrasonic shot peen technology allows workers to take the machine to the blade when they cannot bring the blade to the machine. Ultrasonic peening has been recently considered an alternative to conventional shot peening due to its versatility in establishing localized repairs on the field. The new computerized technology has the ability to shot peen small localized process areas in seconds. This capability increases readiness and reduces turnaround time. In 2016, CCAD saved 28 rotor blades from becoming scrap, resulting in a cost avoidance of roughly \$160,000 per blade.

FIND OUT MORE

Corpus Christi Army Depot
308 Crecy St.
Corpus Christi, TX 78419

www.ccad.army.mil

 /CorpusChristiArmyDepot/

 @CCADPAO

LETTERKENNY ARMY DEPOT

LOCATION INFORMATION

- Chambersburg, Pennsylvania

CORE COMPETENCIES

- Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I)
- Refurbishment and maintenance support for Tactical Missile Air Defense Systems
- Electric Power Generation Systems reclamation
- Manufacturing/fielding of various armored vehicles and Counter Explosive Devices
- Rebuild, repair and modifications for ground mobility vehicles and other specialized vehicles and equipment
- Overhaul and repair of power-generation equipment and mobile repair teams for on-site maintenance assistance
- Four Center of Industrial and Technical Excellence (CITE) designations



ABOVE: U.S. Army Pfc. Jazel Yadao, AH-64 Apache attack helicopter repairer, and U.S. Army Sgt. Sean Parker, Apache armament/electrical/avionic system repairer, both assigned to 1st Attack Reconnaissance Battalion, 10th Aviation Regiment, 10th Combat Aviation Brigade, slide a Hellfire missile into place on an Apache at Taji Airbase, Iraq. (U.S. Army photo by Sgt. 1st Class R.W. Lemmons IV)

Letterkenny Army Depot (LEAD) is the organic maintenance facility for Tactical Missile Air Defense System refurbishment and maintenance support, Electric Power Generation Systems reclamation and the manufacturing/fielding of various armored vehicles and Counter Explosive Devices, delivering manufacturing, logistics life cycle support, and service worldwide to the joint warfighter and international partners.

INTRODUCTION

LEAD, a subordinate of U.S. Army Aviation and Missile Command, is a capabilities-based versus a commodity-based depot. Its geographical location in south central Pennsylvania provides easy accessibility to both air and rail transportation as well as major interstate routes. The installation is home to Patriot maintenance as well as other missile systems such as Avenger, Tube-launched Optically tracked Wire-guided (TOW) missile, Multiple Launch Rocket System (MLRS), Advanced Fire Control System (AFCS), High-Mobility

Artillery Rocket Systems (HIMARS), Hellfire and Javelin. LEAD provides overhaul and repair of power-generation equipment and provides mobile repair teams for on-site maintenance assistance. The depot is situated on more than 18,600 acres with a large land portion used to conduct storage and demilitarization operations on tactical missiles and ammunition. It has more than 1.4 million square feet of shop floor space and a 28-acre state-of-the-art radar test facility.

LEAD provides rebuild, repair and modifications for ground mobility vehicles, special operations vehicles, tactical wheeled vehicles, biological integrated detection systems, materiel handling equipment, force provider, mobile kitchens, containerized chapels and various Soldier support systems. The depot also machines and fabricates armor for various protection kits.

CAPABILITIES & MISSION EXECUTION

LEAD manages and directs the administrative and operational control of Theater Readiness Monitoring facilities and Patriot missile facilities engaged in assessing the readiness and recertification of Homing All the Way Killer (HAWK) and Patriot missiles deployed by the U.S. Army, NATO, and selected Foreign Military Sales customers. Highly skilled electronic integrated systems mechanics provide on-site support and repair services for the Soldier deployed with their military unit anywhere.

The depot performs overhaul and repair of power generation equipment and provides mobile repair teams for on-site maintenance assistance. LEAD rebuilds, repairs and performs modifications on Ground Mobility Vehicles, customized Special Operations vehicles, tactical wheeled vehicles, Biological Integrated Detection Systems (BIDS), Material Handling Equipment and Force Provider Soldier support systems (i.e., mobile kitchens, containerized chapels). The depot also machines and fabricates armor for various protection kits.

INDUSTRIAL SKILLS AND FACILITIES

Letterkenny Army Depot is focused on Soldier support missions. From the intricate electronic components of BMC4I, de-canning and canning of missiles, 9-layer circuit card refurbishment, customization and testing of a wheeled vehicle, rebuild of a power generator, and reverse engineering of a one-of-a-kind component, Letterkenny is recognized as a “one-stop shop” and the “depot of choice” for the warfighter.

LEAD’s capabilities are listed below.

- Electronic Systems Integration
- Missile Maintenance
- New Build
- Radar Test Site
- Antenna Array Radar Pattern Testing
- Thermal Chamber Testing
- Ground Support (Vehicle, Equipment and Mechanical Support)
- Electric Motor Rebuild
- Shelter Repair/Upgrade
- Hydraulics
- Automotive Repair/Upgrade, including: FMTV, RG-31, GMV, etc.
- Trailer Repair/Upgrade
- Cable/Harness
- Wiring Harness Fabrication
- Wiring Harness Repair
- Fiber Optic Cables
- Testing & Quality Control
- Diagnostic Testing
- DITMCO Testing
- Clean/Shielded Room Environment
- Non-Destructive Testing
- Precision Measurement
- Engineering Services
- 3D Printing
- Reverse Engineering of legacy systems
- Material and Process solutions
- Circuit Cards & Circuit Boards
- Multi-Layer Circuit Board Repair
- Fabrication
- Sheet Metal Fabrication
- Machine Shop
- Armor Kits
- Welding
- Heat Treatment
- Upholstery Fabrication
- Power Generation
- Generator Overhaul
- Process Support
- Metal Pretreatment
- Metal Plating
- Painting
- Blasting
- Epoxy Application
- Certifications
- J-STD-001 Soldering
- 13+ Weld Certification
- Star4D Certification

LETTERKENNY ARMY DEPOT *Continued*



Employees work on the guidance section of the Patriot missile in the newly constructed, 40,000-square-foot, \$11.6 million Theater Readiness Monitoring Facility at U.S. Army Materiel Command's Letterkenny Army Depot in Chambersburg, Pa. (U.S. Army photo by Don Bitner)

Battle Management Command, Control, Communications, Computers and Intelligence

LEAD is the depot with capability to repair the Patriot radar set antenna array backplane and align it to electrical bore site. The organization can refurbish, fabricate, modify, diagnose and repair; as well as provide system integration, test and validation to technical data pack (TDP) specifications. LEAD installs configuration updates through the application of maintenance work orders and engineering change proposals. These refurbishment methods include system overhaul, recapitalization and reset of ground support equipment. LEAD recapitalizes Patriot system to refresh and extend weapon system life cycle. LEAD offers fly-away modification installation teams that field enhanced weapon system capabilities directly to the warfighter. LEAD has emergency technical and maintenance assistance response teams to mitigate non-mission capable events in CONUS and OCONUS. Depot Maintenance plant equipment necessary to test to TDP specifications in simulated track, electronic counter-measure and temperature environments is available.

Specific capabilities, services and equipment related to BMC4I are available at LEAD.

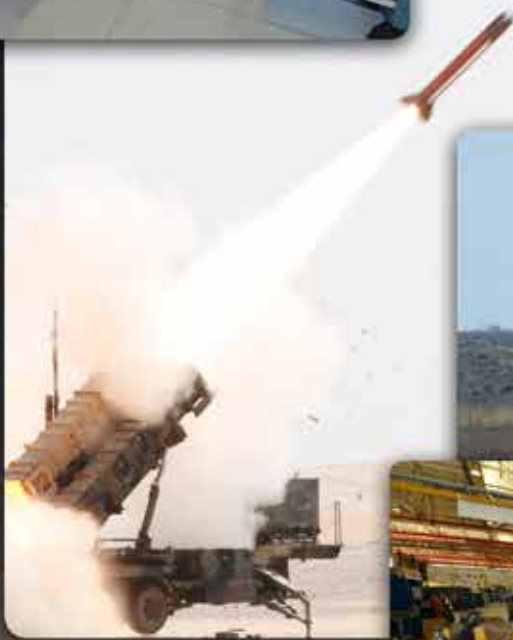
- Patriot major end items
- Patriot test site
- Missile maintenance operations
- Circuit card testing and repair
- Power generators
- Ground support (vehicle, equipment and mechanical support)
- Machining and fabrication
- Welding
- Miscellaneous fabrication
- Material prep/finish
- Unique item identification data fabrication plates and schedemics
- Production engineering
- Technical publications/Engineering design
- Supply and transportation

Letterkenny produces products for major commands, including the U.S. Army Aviation and Missile Command, U.S. Army Tank-automotive and Armaments Command, the U.S. Army Communications-Electronics Command. Products include: PATRIOT, HAWK, TOW, Javelin, Avenger, HIMARS, Sentinel, route clearance vehicles, ground mobility vehicles, material handling equipment, construction equipment, shelters (including BIDS), power generators and Soldier support equipment.

FIND OUT MORE

Public Affairs Office
Letterkenny Army Depot
1 Overcash Avenue
Chambersburg, PA 17201-4150

www.letterkenny.army.mil



AVIATION
& MISSILE



U.S. ARMY SUSTAINMENT COMMAND

The U.S. Army Sustainment Command (ASC) sustains Army and joint forces around the world in support of Combatant Commanders.

PRIMARY LOCATIONS

- Headquarters: Rock Island Arsenal, Illinois
- Distribution Management Center: Rock Island Arsenal, Illinois
- 401st Army Field Support Brigade: Camp Arifjan, Kuwait
- 402nd Army Field Support Brigade: Fort Shafter, Hawaii
- 403rd Army Field Support Brigade: Camp Henry, Korea
- 404th Army Field Support Brigade: Joint Base Lewis-McChord, Washington
- 405th Army Field Support Brigade: Kaiserslautern, Germany
- 406th Army Field Support Brigade: Fort Bragg, North Carolina
- 407th Army Field Support Brigade: Fort Hood, Texas
- Logistics Civil Augmentation Program Support Brigade: Rock Island Arsenal, Illinois

INTRODUCTION

ASC, headquartered at Rock Island Arsenal, Illinois, bridges the national sustainment base to the Soldiers in the field, bringing together the capabilities of U.S. Army Materiel Command's (AMC) subordinate units to provide the Soldier with the right equipment at the right place and time in the right condition. The command has visibility of Army equipment and can provide prompt delivery to combat units in the U.S. and abroad. ASC is the "face-to-the-field" for maintenance and logistics solutions. The forward presence of ASC is organized around AFSBs, AFSBns, the DMC, and more than 70 LRCs, with a presence in 32 states and 19 countries.

As the executing arm of AMC's equipping mission, ASC brings together all of AMC's capabilities to make sure Soldiers have what they need, when they need it. ASC provides materiel management of major end items, and sustains, maintains and modernizes them for combat brigades. In addition to supporting combat operations, ASC provides support for natural disasters and humanitarian crises.

ABOVE: Soldiers from Company C, 296th Brigade Support Battalion, 1-2 Stryker Brigade Combat Team, and Soldiers from 3-25 Aviation Battalion conduct hoist operations training at Rodriguez Live Fire Complex, South Korea. The Soldiers were in Korea as part of Operation Pacific Pathways, the U.S. Army's premier method to take advantage of multiple training opportunities with several countries in support of continued regional stability and security. (U.S. Army photo by Spc. Loren Keely)

OPPOSITE PAGE: Two mechanics work on non-tactical vehicles under the Installation Materiel Maintenance Activity, LRC-McCoy, July 10. IMMA has a 149,000-square foot facility with 55 maintenance bays, two welding bays, and two body repair bays, among other services. (U.S. Army photo by Jon Micheal Connor)

- Army Sustainment Command-Army Reserve Element: Rock Island Arsenal, Illinois
- 279th Army Field Support Brigade: Huntsville, Alabama
- More than 70 Logistics Readiness Centers worldwide

CORE COMPETENCIES

- Command and control hub for Army logistics
- Worldwide maintenance and logistics solutions
- Provides support through Army Field Support Brigades (AFSBs), Army Field Support Battalions (AFSBns), Logistics Readiness Centers (LRCs) and the Distribution Management Center (DMC)
- Materiel management of major end items such as tanks, mine-resistant ambush-protected vehicles and Strykers
- Support for natural disasters and humanitarian crises

CAPABILITIES & MISSION EXECUTION

ASC supports Combatant Command operations by sustaining and supporting joint forces, supporting rotational forces, and augmenting theater combat support service capabilities. Through the Logistics Assistance Program, civilian employees from AMC's life cycle management commands are embedded with combat brigades throughout the Army, working with and training Soldiers to repair and maintain major items at the field level. ASC is involved in the retrograde of excess equipment from combat areas to support Army requirements. AFSBs receive equipment no longer required in the field, maintain accountability for it, reallocate it based on condition and Army requirements, and arrange for shipment to its destination. This mission is vital to Army readiness, since the equipment can be reset as needed and used to fill unit shortages, as well as Foreign Military Sales and ongoing combat operations.

The Logistics Civil Augmentation Program (LOGCAP) provides support services to deployed Soldiers, joint forces, non-military federal agencies and coalition forces in locations throughout the world. LOGCAP provides basic life services to the troops, builds base camps and takes them down as required. In addition to combat operations, LOGCAP maintains plans to support humanitarian contingencies when needed.

ASC provides the Army strategic depth and flexibility by supporting Army forces at home station, ensuring Army materiel readiness, maintaining Army Prepositioned Stocks (APS) and operational stocks, and maintaining power projection capabilities. ASC has full operational

control over LRCs, which provide the command with a daily, visible impact on every Soldier at his/her home station. LRCs manage materiel and support services to Army units, performing tasks such as ammunition management, equipment maintenance, hazardous materials operations, laundry and dry cleaning, central issue facilities, bulk fuel, property book, personal property, transportation, food service, and demand supported supply.

ASC's APS program stores materiel on land and aboard ships at sea for Army operations and humanitarian contingencies. APS warehouses store major items, repair parts and life support materiel, giving the Army the flexibility to go anywhere, at any time, with the logistics support needed to get the job done. To meet the demands of tomorrow, ASC will continue to adjust its focus to home station while maintaining global capabilities for the Army and joint forces and shape Army logistics in support of the current and future Army.

FIND OUT MORE

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www.aschq.army.mil/home

[f /ArmySustainmentCommand](https://www.facebook.com/ArmySustainmentCommand)

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DISTRIBUTION MANAGEMENT CENTER

LOCATION

- Rock Island Arsenal, Illinois

CORE COMPETENCIES

- Materiel management
- Lead Materiel Integrator executing agent
- Maintenance operations management supporting Logistics Readiness Center (LRC) performance and Army Prepositioned Stocks (APS) force readiness
- Synchronization of strategic mobility efforts

A row of Mine-Resistant Ambush Protected (MRAP) vehicles are ready and waiting in at Camp Arifjan, Kuwait. The Distribution Management Center is lead materiel integrator that supports operations for global Army requirements. (U.S. Army photo by Sgt. Angela Lorden)



The Distribution Management Center (DMC) executes integrated materiel management and materiel distribution in support of the Army.

INTRODUCTION

The Distribution Integration Division of the DMC is the Lead Materiel Integrator (LMI) executing agent, performing centralized and integrated materiel management and distribution operations in support of global Army requirements. A subordinate of U.S. Army Sustainment Command, the division equips (MTOE CLS II & VII) materiel management functions in support of Army requirements and priorities. By using the Decision Support Tool, unit and materiel integrators provide strategic equipping analysis and sourcing solutions, distribution of new equipment, redistribution of Army excess inventory, and divestiture of obsolete equipment. These materiel management functions support strategic equipment on-hand readiness for contingency forces and operations across the Army.

The Supply Division provides materiel management and customer assistance for demand-supported supplies (CL II, III (P), IV and IX) in Army Field Support Brigades within the Continental U.S. and coordinates with AFSBs located in other theaters, theater sustainment commands, and various agencies to synchronize efforts and standards, and gain efficiencies.

The Materiel Readiness Division synchronizes maintenance operations by performing analysis that recommends materiel priorities, positions assets, evaluates cost analysis, and plans LRC workloads; monitors and analyzes APS fleet readiness data to focus on improving the responsiveness and efficiency of the maintenance infrastructure; and analyzes and reports on the performance of LRC and APS maintenance programs to ensure compliance with policy and procedure.

The Operations and Mobility Division is broken into three separate branches: Mobility, Current Operations and Future Operations. The Mobility Branch provides strategic support by planning and coordinating movement of Army war reserves, including other Army contingency and sustainment materiel, through U.S. Transportation Command and Military Surface Deployment and Distribution Command. The Current Operations branch enforces Army sustainment priorities established by the Department of the Army, U.S. Army Materiel Command, ASC, and supported Army commands; synchronizes DMC separate division operations; tracks requirements internally and externally; supervises S-1, S-2 and S-4 functions within the DMC; tracks mandatory training requirements; and facilitates sustainment meetings, briefings and working groups. The Future Operations branch manages planning and orders development; coordinates efforts with national-level partners, expeditionary sustainment commands and theater sustainment commands; links the ASC sustainment visions with the Army commands, Corps G-4s and operations executors; develops plans and oversees the orders process; and conducts long-range calendar development.

CAPABILITIES & MISSION EXECUTION

- Coordinate the redistribution of Army equipment at Component/Army Commands/Army Service Component Commands/Direct Reporting Units levels in accordance with Army priorities and policies
- Integrate equipment status and availability into the build of units and projects predictive readiness
- Provide courses of action analysis for the Army and U.S. Army Materiel Command for distribution and redistribution of equipment to accurately forecast equipment for on-hand readiness
- Evaluate LRC maintenance production and performance
- Analyze and provide materiel and maintenance management supporting installation and APS fleet readiness
- Serve as the executive agent and program manager for field-level reset

- Perform Global Combat Support System-Army Materiel Management Level I/II/III for Classes of Supply II/IIIP/IV/IX
- Provide prioritization recommendations to life cycle management commands, Defense Logistics Agency and LRCs in support of units globally
- Monitor theater retrograde operations and support retrograde processing by synchronizing efforts between the LCMCs, Logistics Support Activity and the forward-deployed Army Field Support Brigades
- Provide in-transit visibility of the transportation pipeline and helps resolve delays in movement
- Perform Army Working Capital Fund Financial Improvement Program Audit of Supply Support Activity inventory
- Supervise and manage Second Destination Transportation Account Codes for Army Sustainment Command in support of worldwide transportation operations
- Responsible for communicating Army Sustainment Command requirements for the use of Army centrally managed Tactical Command Posts, and ensure that all duties were performed in accordance with the Defense Transportation Regulation and Army guidance

FIND OUT MORE

<http://www.aschq.army.mil/home/DMC.aspx>

 [/Army-Sustainment-Command-Distribution-Management-Center](#)

401ST ARMY FIELD SUPPORT BRIGADE

PRIMARY LOCATIONS

- Camp Arifjan, Kuwait – Headquarters
- Afghanistan
- Qatar



Civilian contractors move U.S. Army vehicles inside warehouses to protect them from the elements at Camp Arifjan, Kuwait. The 401st Army Field Support Brigade maintains prepositioned, combat-ready equipment and material to support unified land operations all over the U.S. Central Command area of operations. (U.S. Army photo by Sgt. Angela Lorden)

The **401st Army Field Support Brigade (AFSB)** executes sustainment, property accountability and responsible retrograde in support of Army, joint and multinational forces and other U.S. government agencies across Central Command (CENTCOM), in addition to providing the strategic logistics link from the national industrial base to the joint warfighter in the field.

INTRODUCTION

The 401st AFSB, a subordinate of U.S. Army Sustainment Command, is headquartered at Camp Arifjan, Kuwait, where it leverages the full might of the Army materiel enterprise across Central Command's (CENTCOM) area of responsibility in Southwest Asia. To support Army, joint and multinational forces, and other U.S. government agencies across CENTCOM, the 401st performs sustainment, property accountability and responsible retrograde. It also provides the strategic logistics link from the national industrial base to the joint warfighter in the field. The 401st AFSB commands three Army Field Support Battalions, operating in Afghanistan, Qatar and Kuwait, sustaining the warfighter throughout CENTCOM.

CAPABILITIES & MISSION EXECUTION

The 401st AFSB provides the Army Sustainment Command (ASC) and the materiel enterprise partners a forward presence and executes critical programs and missions in support of CENTCOM operations and contingencies. These include building and sustaining the CENTCOM joint warfighter, providing property accountability, enhancing CENTCOM readiness and providing strategic depth.

In addition, the 401st AFSB manages the Logistics Civilian Augmentation Program, essential combat support and combat service support specifically tailored to battlefield commander's requirements. It is also involved in contracted field support maintenance; the Logistics Assistance Program; theater property equipment; Army Prepositioned Stocks-5; support to Foreign Military Sales; and Life Cycle Management Command reach back support.

The 401st AFSB traces its history back to the 1997 activation of the Combat Equipment Group-Southwest Asia (CEG-SWA). The command was formed as a result of the Chief of Staff of the Army's decision to expand U.S. Army Materiel Command's responsibility for war reserve stocks, to include the Persian Gulf region.

While the unit created Army Prepositioned Stock sets in Qatar and Kuwait, it underwent a series of name and organizational changes. CEG-SWA was renamed AMC Forward-SWA on Oct. 1, 2000, when the unit assumed responsibility for the Logistics Assistance Program and LOGCAP in Southwest Asia.

AMC Forward began war support operations in Southwest Asia in October 2001, with support to U.S. forces in Afghanistan. Its headquarters moved from Qatar to Kuwait in fall 2002 as part of the ramp up to Operation Iraqi Freedom. The unit was re-designated the Army Field Support Brigade-SWA on Oct. 1, 2004. At the time, the AFSB-SWA consisted of the brigade headquarters in Qatar; AFSBn-Qatar; AFSBn-Kuwait; AFSBn-Afghanistan; prepositioned watercraft at Kuwait Naval Base; and the Logistics Support Element at Camp Arifjan, Kuwait. The AFSB-SWA was deactivated on Oct. 16, 2006, when the 401st AFSB was activated. In 2008, the brigade headquarters forward deployed to Bagram Airfield, Afghanistan. The battalions in Kuwait and Qatar transferred to the 402nd AFSB in 2010 to allow the 401st to focus on Afghanistan.

FIND OUT MORE

www.aschq.army.mil/home/401.aspx

 /401stAFSB

402ND ARMY FIELD SUPPORT BRIGADE

PRIMARY LOCATIONS

- Schofield Barracks/Fort Shafter, Hawaii – Headquarters
- Fort Greely, Alaska
- Fort Wainwright, Alaska



An MRAP is processed at by the 402nd Army Field Support Brigade at Joint Base Balad, Iraq. (U.S. Army photo by Galen Putnam)

The **402nd Army Field Support Brigade (AFSB)** is a mission-focused, modular organization designed to bring logistics power forward to every element of the expeditionary Army by providing responsive strategic logistics capability and materiel readiness to enable the U.S. Pacific Command to conduct the full range of military operations.

INTRODUCTION

The 402nd AFSB brings logistics power forward to every element of the expeditionary Army. It does this by providing responsive strategic logistics capability and materiel readiness.

The 402nd AFSB works to ensure materiel readiness throughout the U.S. Pacific Command (PACOM) area of responsibility through a range of logistics and sustainment support, installation support through synchronization of materiel enterprise operations, and offers the full spectrum of support in remote locations, often operating under harsh arctic conditions.

The 402nd AFSB has five direct reporting units: two Army Field Support Battalions (AFSBn) and three Logistics Readiness Centers (LRCs) providing direct support to U.S. Army Pacific (USARPAC) forces throughout PACOM with reach back capabilities covering five time zones. The brigade is a subordinate of U.S. Army Sustainment Command.

CAPABILITIES & MISSION EXECUTION

AFSBn-Alaska integrates and synchronizes U.S. Army Materiel Command materiel enterprise support to U.S. Army Alaska and the Alaska National Guard. AFSBn-Alaska provides logistics assistance to commanders who are confronted with challenges beyond their resources or capabilities. AFSBn-Alaska performs this function through the employment of Brigade Logistics Support Teams composed of technically proficient logistics and maintenance personnel and Logistics Assistance Representatives (LAR) from all U.S. Army Materiel Command life cycle management commands. LARs' primary mission is to analyze unit materiel readiness and assist in resolving equipment readiness issues.

AFSBn-Hawaii provides logistics and sustainment support to all units within Hawaii and other areas within PACOM not covered by a sister brigade, through prioritization, integration and synchronization of the Army's acquisition, logistics and technology capabilities in order to maintain unit readiness. AFSBn-Hawaii is responsible for direct operational support to three combat brigades of the 25th Infantry Division and 15 Active and Reserve Component combat support brigades within USARPAC.

LRC-Fort Greely, Alaska, provides a range of logistics services across the full spectrum of operations to the garrison and tenant activities supporting the Missile Defense Complex in a remote locale under harsh arctic conditions.

LRC-Fort Wainwright, Alaska, and Joint Base Elmendorf-Richardson (JBER), Army Support Area, Alaska, provide full-spectrum logistics support in a similar environment to Fort Greely, as well as across vast distances in Alaska to units, the garrison, and tenant activities at Fort Wainwright, JBER, Bolio Lake, and Black Rapids Training Site in order to ensure warfighters are properly sustained.

LRC-Schofield Barracks, Oahu, Hawaii integrates and synchronizes materiel enterprise operations that provide sustainable installation support and power projection capability to the Army and joint forces in PACOM. The logistics support and services provided are inclusive of logistics services contract, transportation, supply and services, and maintenance. Additionally, LRC-Schofield Barracks provides sub-installation support to Pohakuloa Training Area, located on the big island of Hawaii.

FIND OUT MORE

www.aschq.army.mil/home/402.aspx

403RD ARMY FIELD SUPPORT BRIGADE

LOCATION

- Camp Henry, Korea

Terry Johnston and Andrew Davis install a component on one of the 403rd Army Field Support Brigade's new communications terminals. Called SNAP for SIPR/NIPR Access Point, the terminal can be assembled by two people in less than 30 minutes. Johnston is part of an Army Sustainment Command G6 training team sent to Camp Henry, Korea, to familiarize the 403rd with the new gear. (U.S. Army photo by Tim Unger)



The 403rd Army Field Support Brigade (AFSB) is a mission-focused and modular unit organized to place logistics power forward to every element of the expeditionary Army.

INTRODUCTION

In support of the Combatant Commander's theater strategy, the 403rd AFSB's mission is to sustain U.S. Forces Korea, 8th Army and U.S. Forces Japan. Missions include integration of U.S. Army Materiel Command's (AMC) augmentation forces; infrastructure development to support AMC power-projection capabilities; the Logistics Assistance Program; the Logistics Civil Augmentation Program (LOGCAP); synchronizing the LCMC's Forward and Special Repair Activities support within theater; maintenance and distribution of Army Prepositioned Stocks (APS); and the integration of acquisition, logistics and technology to support Soldier requirements.

The 403rd AFSB's unique capability in linking Soldiers at the smallest outposts in Korea and Japan to the national sustainment base makes it a pivotal part of the materiel enterprise.

CAPABILITIES & MISSION EXECUTION

The 403rd AFSB has a network of Logistics Support Elements that provide direct support to corps-level activities: Army Field Support Battalions in Korea and Northeast Asia, which provide direct support to the 2nd Infantry Division (Combined) and management of the regional APS-4; Brigade Logistics Support Teams that provide direct support to the 2ID/ROK U.S. Combined Division and non-divisional units brigade combat teams; and logistics support teams, providing direct support to non-divisional units in its assigned areas, including Okinawa and mainland Japan.

The 403rd AFSB provides Army Sustainment Command and materiel enterprise partners a forward presence to assist in managing sustainment maintenance and supply, and, when required, helps support theater maintenance activities in the field.

The AFSB-Far East was disestablished on Oct. 16, 2007, and the 403rd AFSB was activated. The 403rd assumed responsibility for the Logistics Civil Augmentation Program operations in the Pacific, the watercraft mission in Yokohama, and AMC functions in Japan and Okinawa.

FIND OUT MORE

www.aschq.army.mil/home/403.aspx

404TH ARMY FIELD SUPPORT BRIGADE

PRIMARY LOCATIONS

- Joint Base Lewis-McChord (JBLM), Washington – Headquarters
- Fort Irwin, California
- Fort Huachuca, Arizona
- Logistics Readiness Centers (LRCs) in Arizona, California, Illinois, Michigan, Utah, Wisconsin and Washington

The 404th Army Field Support Brigade supports a variety of sustainment missions around the globe, including Program Manager Stryker with Regional Logistics Readiness Centers and with logistics support teams at locations including Fort Irwin, California. (U.S. Army photo by Sgt. Michael Spandau)



The **404th Army Field Support Brigade (AFSB)** supports contingency and response operations in the U.S. Northern Command (NORTHCOM), U.S. Pacific Command (PACOM) and I Corps areas of responsibility.

INTRODUCTION

The 404th AFSB, a subordinate of U.S. Army Sustainment Command, is a mission-focused, modular organization, designed to project logistics power to the expeditionary Army. It is tasked to provide first response, scalable mission command capabilities and synchronization of U.S. Army Materiel Command (AMC's) materiel enterprise operations to NORTHCOM and U.S. Army North. The brigade accomplishes this through coordination of the Army Field Support Battalion-Lewis (AFSBn-Lewis), three Logistics Support Teams (Fort Irwin, California; Fort Huachuca, Arizona; and JBLM); one Logistics Support Element at JBLM; three brigade logistics support teams (BLSTs) at JBLM; and 10 LRCs.

CAPABILITIES & MISSION EXECUTION

AFSBn-Lewis provides a single AMC "face-to-the-field" for I Corps, National Guard and Reserve units in Washington, Idaho and Oregon. Its primary mission is to provide continuity of support between the warfighter, AMC, and acquisition, technology and logistics communities. They accomplish this support through BLSTs and the life cycle management commands' Logistics Assistance Representatives. This network of subject-matter experts leverages local, strategic and industrial capabilities to improve training and equipment readiness.

The 404th AFSB's LRCs provide tailored, full-service logistics support to the senior mission commander, Army installation command garrisons, AMC, Training and Doctrine Command, and area support to National Guard and Reserve forces within their respective state. Support services may include supply and services, transportation and maintenance capabilities.

In response to shifting global missions, AMC teamed with the Under Secretary of Defense for Acquisition, Technology and Logistics to develop three Regional Logistics Readiness Centers (RLRCs). The RLRC concept was designed as a power-projection platform focused on materiel readiness and acquisition integration. In 2016, the concept became reality when the first RLRC became fully operational at JBLM. Currently, the 404th RLRC supports PM Stryker, the U.S. Army Communications-Electronics Command and I Corps with a location to equip, train and sustain units on new equipment and technology.

FIND OUT MORE

www.aschq.army.mil/home/404.aspx

www.aschq.army.mil/home/AFSBn_Lewis.aspx

405TH ARMY FIELD SUPPORT BRIGADE

PRIMARY LOCATIONS

- Kaiserslautern, Germany – Headquarters
- Vilseck, Germany
- Livorno, Italy

Contractors for the 405th Army Field Support Brigade transport five UH-60 Blackhawk helicopters belonging to the 10th Combat Aviation Brigade to Illesheim, Germany. (U.S. Army Photo by Pfc. Dashaad Boyd)



The 405th Army Field Support Brigade (AFSB) provides materiel enterprise support to U.S. forces throughout Europe and Africa.

INTRODUCTION

The 405th AFSB, headquartered at Daenner Kaserne, Kaiserslautern, Germany, provides materiel enterprise support to U.S. forces throughout Europe and Africa; provides theater sustainment logistics; synchronizes acquisition, logistics and technology; and leverages the U.S. Army Materiel Command materiel enterprise to support joint forces. The brigade, a subordinate of U.S. Army Sustainment Command, is mission-focused and designed to bring logistics power forward to every element of an expeditionary Army.

As a forward presence in assisting and managing sustainment and field-level maintenance, the 405th is also responsible for the European Activity Sets (EASs), consisting of Army Prepositioned Stocks (APS) at various European locations. The 405th manages receipt, storage, maintenance and issuance of all APS equipment across the continent.

The 405th AFSB provides support throughout the U.S. European Command and the U.S. Africa Command areas of operation, with two Army Field Support Battalions (AFSBn) that focus on Europe and Africa; brigade logistics support teams (BLSTs) that provide direct support to their assigned brigade combat teams; Logistics Support Teams East and West, which provide direct support on an area basis to Army separate reporting units; and installation logistics operations.

CAPABILITIES & MISSION EXECUTION

The 405th AFSB War Reserve Branch is responsible for the EASs, consisting of APS equipment sets located at various European locations. The various EAS sites include fully

modernized and independent combat-ready equipment for designated forces to utilize as directed, in support of NATO operations.

The 405th AFSBn-Germany, headquartered at Rose Barracks in Vilseck, Germany, is responsible for providing BLST and Logistics Support Team support to all U.S. Army Europe forces north of the Alps.

The 405th AFSBn-Africa, headquartered at Leghorn Army Depot in Livorno, Italy, primarily receives, stores, maintains and issues APS equipment, principally MRAP vehicles. It provides controlled humidity storage of assets for several Combatant Commands. AFSBn-Africa also supports the Defense Department's Humanitarian Assistance Program-Excess Property program and USAID Office of Foreign Disaster Assistance with storage space and labor. The 405th AFSBn-Africa was designated as the forward MRAP repair and storage site in Europe and Africa, and serves as a power-projection platform for global operations.

Other missions managed by the 405th AFSB include: Army Force Generation, reset, and life cycle management command maintenance activity synchronization; materiel management; field support; direct theater support; Logistics Assistance Program; and the Logistics Civil Augmentation Program.

FIND OUT MORE

www.afsbeurope.army.mil/

 /405thAFSB

406TH ARMY FIELD SUPPORT BRIGADE

PRIMARY LOCATIONS

- Fort Bragg, North Carolina – Headquarters
- Fort Polk, Louisiana

Soldiers from the 10th Mountain Division conduct maintenance with guidance from Tank-automotive and Armaments Command Logistics Assistance Representative Robert Evans, hosted by the Army Field Support Battalion-Drum, a subordinate of the 406th Army Field Support Brigade, at Fort Drum, New York. (U.S. Army photo by Michael Satchfield)



The **406th AFSB** serves as the single “face-to-the-field” to execute materiel enterprise functions for the U.S. Army Materiel Command (AMC) by integrating and synchronizing acquisition, logistics and technology at the tactical, operational and strategic levels to enable combat readiness of all Army units in the eastern United States.

INTRODUCTION

The 406th AFSB enables combat readiness by integrating and synchronizing acquisition, logistics and technology for all Army units east of the Mississippi River. A crucial element in ensuring integration and execution of installation logistics is through the AFSB operated Logistics Readiness Centers (LRCs) located throughout the eastern United States.

The AFSB, a subordinate of U.S. Army Sustainment Command, also plays a key role in developing Soldier readiness, collaborating with Forces Command to ensure that pre-deployment training equipment provides Soldiers realistic preparation for deployed operations.

CAPABILITIES & MISSION EXECUTION

The 406th AFSB provides support to warfighting units, encompassing 17 posts, camps and stations in 26 states east of the Mississippi River, as well as four Army Field Support Battalions (AFSBns). The Brigade’s area of responsibility includes the main post and Joint Readiness Training Center on Fort Polk, and operational control of 30 LRCs.

Of national strategic importance, the 406th AFSB is also responsible for the Army’s Prepositioned Stocks (APS-3) Afloat program located at Army Strategic Logistics Activity Charleston, South Carolina, and support to Army Special Operations Forces.

Aligned with U.S. Northern Command and in direct support of the Army’s Contingency Corps (XVIII Airborne Corps), all 22 brigade logistics support teams have deployed multiple times in support of the war on terrorism.

The 406th AFSB has demonstrated its flexibility to conduct contingency operations supporting Operation Unified Response humanitarian assistance to Haiti in 2010; hurricane damage support to Fort Bragg, North Carolina, in 2011; assistance in support of Hurricane Sandy in 2012; Ebola pandemic mission support to Africa during Operation Unified Assistance in 2015; and relief to flood-stricken Fort Jackson, South Carolina, in 2015.

Additionally, the 406th AFSB initiated the expansion of the European Activity Set in U.S. Army Europe and is participating in a new APS-6 build. Throughout its history and into the future, the 406th

AFSB provides proactive sustainment logistics, continuous installation logistics operations and contingency rapid deployment support – “steadfast support” to Army Sustainment Command, U.S. Army Materiel Command, the Army and the nation.

FIND OUT MORE

www.aschq.army.mil/home/406.aspx

407TH ARMY FIELD SUPPORT BRIGADE

PRIMARY LOCATIONS

- Fort Hood, Texas
- Fort Carson, Colorado
- Fort Bliss, Texas
- Fort Riley, Kansas



Soldiers with the 4th Infantry Division prepare a M777 Howitzer for a simulated fire mission at the National Training Center, in Fort Irwin, California. The 4th Infantry Division is supported by the Army Field Support Battalion-Carson, a subordinate of the 407th Army Field Support Brigade. (U.S. Army Photo by Spc. John Scarpati)

The **407th Army Field Support Brigade (AFSB)** is regionally aligned with the U.S. Southern Command (SOUTHCOM), and directly supports III Corps.

INTRODUCTION

The 407th AFSB, a subordinate of U.S. Army Sustainment Command, is a critical enabler of strategic logistics capabilities for III Corps units around the world. The brigade's primary area of operation encompasses 13 states in the continental U.S. and the SOUTHCOM area of responsibility. Since its provisional activation, the 407th continues to support Army units deploying in support of operations in Southwest Asia.

In recent years, the 407th has played an active role in brigade deployments in support of regionally aligned forces in Korea, Kuwait and, most recently, in Eastern Europe. Each summer, the 407th directly supports the U.S. Army Cadet Command's summer training program at Fort Knox, Kentucky, providing food, fuel, maintenance and transportation support to thousands of ROTC cadets and cadre.

At Fort Bliss, Texas, and White Sands Missile Range, New Mexico, the 407th plays a key role in support of the Army Agile Process, which features the integration and maturation of the Army's tactical network through semiannual Network Integration Evaluations in conjunction with the Brigade Modernization Command, Army Test and Evaluation Command, Programs Manager System of Systems Integration and the 1st Armored Division.

CAPABILITIES & MISSION EXECUTION

The "Mighty 407th" has four Army Field Support Battalions (AFSBns), 13 Logistics Readiness Centers (LRCs), and multiple logistics support teams (LSTs), including the integration of senior command representatives from each of the life cycle management commands.

AFSBn-Carson is headquartered at Fort Carson, Colorado, and provides direct support to the 4th Infantry Division. AFSBn-Carson has logistical support responsibility for Colorado, Oklahoma, Wyoming, North Dakota and South Dakota.

AFSBn-Bliss, headquartered at Fort Bliss, provides direct support to the 1st Armored Division. AFSBn-Bliss has logistical support responsibility for West Texas and New Mexico.

AFSBn-Riley is headquartered at Fort Riley, Kansas, and provides direct support to the 1st Infantry Division. AFSBn-Riley has logistical support responsibility for Minnesota, Iowa, Missouri, Nebraska and Kansas. AFSBn-Riley has LSTs located at Fort Leonard Wood, Missouri, and Fort Knox, Kentucky.

AFSBn-Hood is headquartered at Fort Hood, and provides direct support to the 1st Cavalry Division and 3rd Cavalry Regiment. AFSBn-Hood has logistical support responsibility for Arkansas and Texas, and has LSTs at Fort Sill, Oklahoma, and Joint Base San Antonio in Texas.

The 407th AFSB LRCs are located at Fort Bliss; Fort Buchanan, Puerto Rico; Fort Carson; Fort Hood; Fort Knox; Fort Leavenworth, Kansas; Fort Leonard Wood; Redstone Arsenal, Alabama; Miami, Florida; Fort Riley; Fort Sill; White Sands Missile Range; and Soto Cano, Honduras.

In 2012, the 407th AFSB gained mission command of its initial eight assigned Directorates of Logistics, now known as LRCs. In 2015, Fort Buchanan and Redstone Arsenal realigned under the 407th AFSB, and Soto Cano followed later in the year.

FIND OUT MORE

<http://www.aschq.army.mil/home/407.aspx>



SUSTAINMENT



U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND

The U.S. Army Communications-Electronics Command (CECOM) provides, integrates and sustains command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) readiness to enable the U.S. Armed Forces.

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland
- Fort Hood, Texas
- Tobyhanna Army Depot, Pennsylvania
- Fort Huachuca, Arizona

CORE COMPETENCIES

- Depot-level manufacturing, repair and overhaul
- Field support
- Interoperability certification
- Foreign military assistance
- Logistics, sustainment planning and execution
- Software sustainment
- Supply chain management
- Information technology systems engineering and integration

INTRODUCTION

CECOM sustains C4ISR readiness while enabling a network that connects and synchronizes the Armed Forces at all echelons to ensure a more capable, better trained, and dominant joint force for the United States and allies.

Comprised of about 9,000 personnel, CECOM's mission is to develop, provide, integrate and sustain the logistics and readiness of C4ISR systems and mission command capabilities for joint, interagency and multinational forces worldwide.

As a life cycle management command, CECOM is the Army's critical link for life cycle support of the communications-electronics systems and equipment used by the joint forces. CECOM executes a sustainment and logistics integration mission across a very broad and complex set of C4ISR systems and capabilities.

CECOM, along with elements from U.S. Army Materiel Command and the Assistant Secretary of the Army for Acquisition, Logistics and Technology, collectively form the C4ISR Center of Excellence at Aberdeen Proving Ground, Maryland.

ABOVE: The battlefield of the future is in fact, the battlefield of today. The wide array of sophisticated electronics needed to unclutter and protect cyber space will remain a prime focus for commanders in the field. (U.S. Army photo)

OPPOSITE PAGE: Cyber school: Second Lt. Ian Reynoso, a student in the Army's first Cyber Basic Officer Leader Course at the Army Cyber School, uses a field computer to probe for a targeted wireless network signal during a field training exercise at Fort Gordon, Georgia. (U.S. Army photo by Capt. Sam Thode)

CAPABILITIES & MISSION EXECUTION

CECOM is comprised of five subordinate organizations:

Central Technical Support Facility (CTSF), Fort Hood, Texas: CTSF is the Army's premier test, integration and certification testing facility for the Army LandWarNet/Battle command systems. The CTSF provides C4ISR testing and certification for intra-Army interoperability, interim authority to operate, spectrum analysis and net-worthiness.

Integrated Logistics Support Center (ILSC), Aberdeen Proving Ground, Maryland: ILSC provides a global logistics support for C4ISR systems and equipment through rapid acquisition, maintenance, production, fielding, new equipment training, operations and sustainment to meet the Army's Reset and Readiness goals in support of Army and coalition forces.

Software Engineering Center (SEC), Aberdeen Proving Ground, Maryland: SEC provides life cycle software solutions for C4ISR software systems on the battlefield. SEC develops and maintains software business applications to ensure our Soldiers are fed, housed, moved and supplied.

Tobyhanna Army Depot (TYAD), Tobyhanna, Pennsylvania: TYAD is the Army's premier depot providing maintenance, manufacturing, integration and fielded repair to C4ISR Systems worldwide, including more than 80 forward repair activities. TYAD accomplishes maintenance, fabrication and system integration for Army, Navy and Air Force C4ISR systems.

U.S. Army Information Systems Engineering Command (USAISEC), Fort Huachuca, Arizona: USAISEC provides systems engineering services, installation, integration, implementation and evaluation support for communications and IT systems in support of the warfighter. USAISEC supports the Program Executive Officer for Enterprise Information Systems in upgrading the IT infrastructure at every Army post, camp and station; upgrading command centers; and modernizing the IT infrastructure throughout the Army.

HISTORY

A U.S. Army Materiel Command major subordinate command, CECOM was first established as the U.S. Army Electronics Command on Aug. 21, 1963. It was designated the Communications-Electronics Command in 1981, and was re-designated as the CECOM Life Cycle Management Command in 2005.

FIND OUT MORE

U.S. Army Communications-Electronics Command
6001 Combat Drive
Aberdeen Proving Ground, MD 21005

www.army.mil/cecom

[!\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\) /CommunicationsElectronicsCommandCECOM](#)



TOBYHANNA ARMY DEPOT

LOCATION

- Tobyhanna, Pennsylvania

CORE COMPETENCIES

- Total sustainment of C4ISR systems and components
- Missile guidance and control, avionics, and electrooptic repair/overhaul
- Configuration management, software sustainment, acquisition logistics support, additive manufacturing
- Worldwide maintenance and sustainment support
- Engineering design, development, simulation and testing
- Center of Excellence for Automated Test Equipment (ATE)



Tobyhanna Army Depot (TYAD) is a recognized leader in providing world-class logistics support for command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) systems across the Department of Defense (DOD).

INTRODUCTION

TYAD, a subordinate organization of U.S. Army Communications-Electronics Command, has served the United States since 1953. Today, it is the premier full-service joint C4ISR maintenance facility in DOD and the largest industrial employer in northeastern Pennsylvania, with an annual economic impact of \$2.5 billion. Tobyhanna's corporate philosophy, dedicated workforce and electronics expertise ensure the depot is the joint C4ISR provider of choice for all branches of the Armed Forces and industry partners.

The depot encompasses 1,336 acres and has more than 2.4 million square feet dedicated to C4ISR and missile guidance and control missions, with 61 percent of the mission area under one roof. It includes 155 buildings, 21 clean rooms and 13 test ranges, one of which is a laser range, in addition to multiple radar ranges.

ABOVE: Soldiers of Fires Squadron, 2nd Cavalry Regiment, install communications cables to a tactical satellite uplink to establish communications during exercise Saber Junction 15. Keeping essential communications and electronics systems, such as satellite systems, functioning at the highest level is a priority for the workforce at Tobyhanna Army Depot in Pennsylvania. (U.S. Army photo by Spc. John Cress Jr.)

Tobyhanna's unparalleled capabilities include full-spectrum logistics support for sustainment, overhaul and repair, fabrication and manufacturing, engineering design and development, systems integration, post-production software support, technology insertion, modification, Foreign Military Sales (FMS), and global field support to joint warfighters. TYAD is virtually self-sustaining, with a modern infrastructure to support its diverse mission requirements. More than 3,800 personnel work at the installation and operate its worldwide network of more than 50 forward repair activities, including seven in Southwest Asia.

In 2012, the depot earned its seventh Shingo Prize for Operational Excellence and as of 2017, has earned four Army Lean Six Sigma Excellence Awards. Among its most notable accomplishments, Tobyhanna has earned two Chief of Staff of the Army Maintenance Excellence Awards for Depot Maintenance and two Army Superior Unit Awards. TYAD is ISO 9001:2008 certified for the repair, overhaul, fabrication, power projection, and logistics support of C4ISR equipment and systems and the design and development supporting integration of communications-electronics systems. Tobyhanna is the first military installation and third organization of any type in the world to achieve certification to both Aerospace Standard (AS) 9100 Revision C and AS9100 Revision A. The depot also holds certification for the ISO 14001:2004 Environmental Management System and the Occupational Health and Safety Assessment Series 18001:2007. In addition, TYAD is the first DOD facility to be certified as an Occupational Safety and Health Administration Voluntary Protection Program Star Site (1999, 2005, 2010).

CAPABILITIES & MISSION EXECUTION

The Army has designated Tobyhanna as its Center of Industrial and Technical Excellence for C4ISR, avionics, and missile guidance and control. The Air Force has designated Tobyhanna as its Technical Repair Center for tactical missiles and command, control, communications, computers and intelligence. TYAD's talented workforce, high level of electronics expertise, and use of the latest technologies and business management techniques ensure the depot is the provider of choice for fabrication, electronic repair, engineering design, systems integration, technology insertion, automated test equipment, and technical documentation development of DOD's joint C4ISR systems as well as missile guidance and control systems.

TYAD projects its capabilities forward to posts, camps, stations and remote operating bases worldwide, ensuring operational readiness for the warfighter. TYAD personnel provide two-level maintenance on systems such as

improvised explosive device countermeasures, logistics information systems, tactical operations centers, Army airborne command and control, Guardrail Common Sensor, Firefinder, Common Ground Station, tactical unmanned aerial vehicles, and communication security equipment at sites throughout Europe; Southwest Asia; Korea; Okinawa, Japan and the continental United States.

INDUSTRIAL SKILLS & FACILITIES

Avionics/Intelligence Electronic Warfare Systems

TYAD overhauls, repairs, tests, modifies, converts, demilitarizes and provides technical assembly and installation for airborne and electronic warfare systems and associated equipment for the joint warfighter. Electronic instruments and electronic integrated system mechanics provide an array of expertise in airborne communications/instrumentation/gyro, inertial and doppler navigation, and airborne and ground countermeasures systems.

Command, Control and Computer Systems

TYAD repairs, tests, overhauls, integrates and modifies:

- Computerized equipment/peripherals;
- Test Measurement & Diagnostic Equipment;
- Telecommunications equipment;
- Automated Test Equipment (ATE);
- Tactical artillery systems; and
- Associated fire control systems.

Field Service Representatives conduct worldwide fieldings to include Total Package Fieldings, computer system integration, demilitarization and assembly of computerized equipment/peripherals.

Communications Systems

Tobyhanna performs overhaul, repair, modification, conversion and technical assembly of communications-electronics equipment, including shelters, vans, trailers and digitized equipment in support of electronic configurations. Electronics and telecommunications technicians, mechanics and engineers provide support by using dedicated facilities, such as Radio Frequency Shielded Rooms and the Tactical End Item Repair Facility, and specialized equipment, such as ATE, Antenna Ranges, Mock-ups, PACE Mantis Soldering Stations, Mass Spectrometer Leak Test Stations and various additional test sets.

Communications Security (COMSEC)

The depot receives, stores, maintains accountability and issues COMSEC and Information Security equipment and material. TYAD personnel provide secure demilitarization and disposal capabilities, as well as COMSEC maintenance

TOBYHANNA ARMY DEPOT *Continued*

sustainment training for the joint warfighter via COMSEC Forward Repair Activities. The 177,000 square foot COMSEC mission facility serves as the Alternate Key Loading Installation Facility and Sensitive Compartmental Information Facility in support of COMSEC functions. Various specialized equipment supports the COMSEC mission such as:

- ST-51 ATE;
- ST-58 Common Fill Device;
- ST-34 ATE;
- STX-34 & 34A Trunk Encryption Devices;
- ST-81 Trunk Encryption Equipment; and
- ST-20 Identification Friend or Foe Tester.

Electro-Optics/Night Vision (EO/NV)

TYAD overhauls, repairs, modifies, tests and installs EO/NV systems and laser and infrared components and systems. EO/NV specialized facilities include three 10,000 Class clean rooms and eight 100,000 Class clean rooms. Various ATE supports the EO/NV mission area. The Automated Laser Instrumentation and Measurement System Test Station provide diagnostics and alignments on Laser Modules, M1 Tank Thermal Receiving Unit, M60 Tank Laser Systems, Bradley Fighting Vehicle subassemblies and Night Vision Goggles. The IFTE, Agilent/HP3070 Systems and Drive In Theatre Manufacturing Company Test Stations are additional test equipment integral to supporting the EO/NV mission.

Radar Systems and Equipment

TYAD performs overhaul, repair, test, modification, conversion, technical assembly and installation as well as worldwide mobile depot maintenance, technical assistance and fielding of Air Defense, Air Traffic Control, Range Threat, Counterfire, Ground Surveillance, Airborne, Shipborne radar and sensor systems. This work supports the U.S. Army, Air Force, Marine Corps, Navy and FMS customers.

The Integrated Antenna and Radar Range Campus provides sophisticated test capabilities for radar systems with distinct radar test sites. The multiple test pads, specialized support facilities and equipment are listed below.

- Anechoic Chambers
- Near Field and Far Field Ranges
- Tower Track Testing Facility
- Live Fire Test Simulator
- Protective Radome

- Modified Munson Road Shake and Vibration Testing
- Elevated Temperature Burn Facility
- Rain Immersion Testing Facility

Advanced ATE verifies analog and digital circuit cards, Radio frequency and Microwave components, modules and subsystems and testing from L band to Ku band.

Satellite Communications

TYAD performs overhaul, repair, alignment, modification, test system/site integration, orientation training and technical field support to include worldwide installation and de-installation of Tactical and Strategic Military SATCOM employed in fixed and mobile configurations. Dedicated facilities support the SATCOM missions such as the SATCOM Mission Facility, Military Strategic Tactical Radar Support Facility, Tactical/Strategic Terminal Test Sites, Tactical Antenna Repair Facility, Strategic Antenna Alignment & Repair Facility, Anechoic Chamber, Digital Communications Satellite Subsystem (DCSS) Prototype Room, and DCSS Staging Tactical End Item Repair Facilities.

Tactical Missile Systems

TYAD has full capability to overhaul, modify, test and repair missile Guidance Control Sections and support equipment. Tobyhanna's Tactical Missile Facility is DOD Explosives Safety Board certified, environmentally controlled and contains Class 300,000, 10,000 and 1,000 clean rooms. Additionally, the entire Tactical Missile Facility is lightning protected, secured with restricted access, and has had a U.S. Navy approved Hazards of Electromagnetic Radiation to Ordnance survey completed.

FIND OUT MORE

Tobyhanna Army Depot
11 Hap Arnold Boulevard
Tobyhanna, PA 18466

www.tobyhanna.army.mil

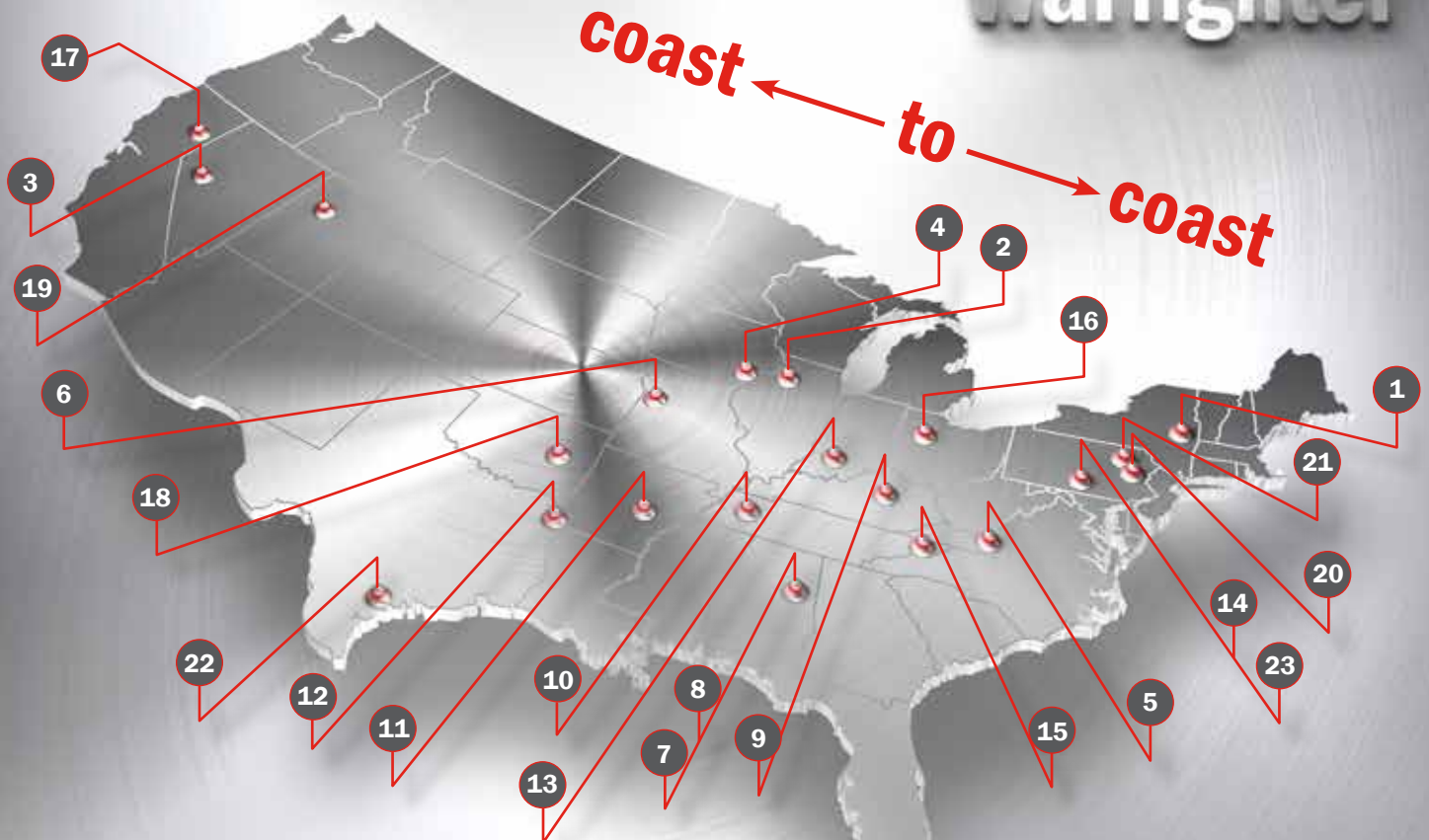
 /TeamTobyhanna

 @teamtobyhanna

ARMY ORGANIC INDUSTRIAL BASE LOCATIONS

The Army's Organic Industrial Base (OIB) consists of 23 geographically dispersed government ammunition plants, manufacturing arsenals and maintenance depots that provide materiel and equipment readiness to U.S. Soldiers, sailors, airmen and Marines.

Supporting
the
Warfighter



1. WATERVLIET ARSENAL
Watervliet, New York, 1813

2. ROCK ISLAND ARSENAL
Rock Island, Illinois, 1862

3. HAWTHORNE ARMY DEPOT
Hawthorne, Nevada, 1930

4. IOWA ARMY AMMUNITION PLANT
Middletown, Iowa, 1940

5. RADFORD ARMY AMMUNITION PLANT
Radford, Virginia, 1940

6. LAKE CITY ARMY AMMUNITION PLANT
Independence, Missouri, 1940

7. ANNISTON ARMY AMMUNITION PLANT
Anniston, Alabama, 1940

8. ANNISTON MUNITIONS CENTER
Anniston, Alabama, 1941

9. BLUE GRASS ARMY DEPOT
Lexington, Kentucky, 1941

10. MILAN ARMY AMMUNITION PLANT
Milan, Tennessee, 1941

11. PINE BLUFF ARSENAL
Pine Bluff, Arkansas, 1941

12. RED RIVER ARMY DEPOT
Texarkana, Texas, 1941

13. CRANE ARMY AMMUNITION ACTIVITY
Crane, Indiana, 1941

14. LETTERKENNY ARMY DEPOT
Chambersburg, Pennsylvania, 1941

15. HOLSTON ARMY AMMUNITION PLANT
Kingsport, Tennessee, 1942

16. JOINT SYSTEMS MANUFACTURING CENTER
Lima, Ohio, 1942

17. SIERRA ARMY DEPOT
Herlong, California, 1942

18. MCALESTER ARMY AMMUNITION PLANT
McAlester, Oklahoma, 1943

19. TOOELE ARMY DEPOT
Tooele, Utah, 1943

20. TOBYHANNA ARMY DEPOT
Tobyhanna, Pennsylvania, 1953

21. SCRANTON ARMY AMMUNITION PLANT
Scranton, Pennsylvania, 1953

22. CORPUS CHRISTI ARMY DEPOT
Corpus Christi, Texas, 1961

23. LETTERKENNY MUNITIONS CENTER
Chambersburg, Pennsylvania, 1961

(SORTED BY DATE OF ESTABLISHMENT)



JOINT MUNITIONS & LETHALITY LIFE CYCLE MANAGEMENT COMMAND

The Joint Munitions and Lethality Life Cycle Management Command (JM&L LCMC) manages research, development, production, storage, distribution and demilitarization of all conventional ammunition and the personnel, organizations, infrastructure and processes required for effective life cycle management of conventional ammunition within DOD.

PRIMARY LOCATIONS

- Picatinny Arsenal, New Jersey
- Rock Island Arsenal, Illinois

CORE COMPETENCIES

- Design
- Acquire
- Integrate
- Field and sustain conventional ammunition

INTRODUCTION

JM&L LCMC facilitates product responsiveness, enhanced effectiveness and integration, and minimized life cycle costs of munitions and lethality acquisition, logistics and technology. Its overarching objective is to deliver the best munitions to the right place, at the right time, and at the right cost.

The LCMC brings together the resources and expertise of its three component organizations: Program Executive Office (PEO) Ammunition located at Picatinny Arsenal; Joint Munitions Command (JMC) at Rock Island; and Armament Research, Development and Engineering Center (ARDEC), also at Picatinny.

The command also oversees a nationwide network of installations and facilities that produce and store conventional ammunition under the direction of Joint Munitions Command.

CAPABILITIES & MISSION EXECUTION

JM&L LCMC manages research, development, production, storage, distribution and demilitarization of all conventional ammunition by bringing together the expertise of three component organizations: JMC, PEO Ammunition and ARDEC.

JMC manages the Army's ammunition plants and depots and serves as the logistics arm of the LCMC. JMC installations produce, store, issue and demilitarize conventional ammunition for all U.S. military services and for other U.S. agencies and allied nations as directed.

PEO Ammunition develops and procures conventional and leap-ahead munitions to increase combat firepower to the joint warfighter.

ARDEC is the Army's principal researcher, technology developer and sustainer of current and future armaments.

FIND OUT MORE

U.S. Army Joint Munitions & Lethality Life Cycle Management Command
Picatinny Arsenal, NJ 07806-5000

<http://www.jmc.army.mil/Historian/MunitionsAndLethality.aspx>

 /JML.LCMC

 @jml_lcmc



ABOVE: A Soldier with 2-2 Stryker Brigade Combat Team fires an 81 mm mortar during Exercise Bayonet Focus 17-03 at Yakima Training Center, Washington. BF 17-03 trained and prepared more than 6,000 Soldiers for the rigors of combat. (U.S. Army photo by Staff Sgt. Samuel Northrup)





JOINT MUNITIONS COMMAND

Joint Munitions Command (JMC) is the ammunition logistics provider for the Department of Defense, responsible for munitions production and storage facilities across the U.S.

PRIMARY LOCATIONS

- Rock Island Arsenal, Illinois – Headquarters
- Crane Army Ammunition Activity, Indiana
- McAlester Army Ammunition Plant, Oklahoma
- Pine Bluff Arsenal, Arkansas
- Holston Army Ammunition Plant, Tennessee
- Iowa Army Ammunition Plant, Iowa
- Lake City Army Ammunition Plant, Missouri
- Radford Army Ammunition Plant, Virginia
- Scranton Army Ammunition Plant, Pennsylvania
- Quad City Cartridge Case Facility, Illinois
- Anniston Munitions Center, Alabama
- Blue Grass Army Depot, Kentucky
- Hawthorne Army Depot, Nevada

INTRODUCTION

JMC is a part of the Joint Munitions and Lethality Life Cycle Management Command, which manages all aspects of the life cycle management of conventional ammunition used by the joint warfighter. Its mission is to provide joint forces with ready, reliable, lethal munitions at the right place and time to sustain global operations.

The command employs more than 5,000 military and civilian personnel, and more than 5,000 contractors. JMC executes an annual budget of \$3.8 billion at a nationwide network of 17 subordinate sites – the most of any single U.S. Army Materiel Command subordinate.

JMC is the latest in a series of commands since World War II that have managed the nation's ammunition plants. Since 1973, those commands have been headquartered at Rock Island Arsenal, Illinois.

ABOVE: Workers from the Shipping and Storage Division, Depot Operations Directorate at McAlester Army Ammunition Plant in Oklahoma, work to load 500-pound bombs in shipping containers for distribution to customers. (U.S. Army photo by Lea Giaudrone)

OPPOSITE PAGE TOP: A 7.62 mm round belt hangs from the chamber of a M240B machine gun as Spc. Demetrius Billings, intelligence analyst, fires at targets at the machine gun range at Fort Hood, Texas. (U.S. Army photo by Cpl. Jaccob Hearn)

OPPOSITE PAGE BOTTOM: Soldiers from 1-2 Stryker Brigade Combat Team fire an M252 81 mm mortar during combined training at Fort Magsaysay, Philippines. (U.S. Army photo by Spc. Loren Keely)

- Letterkenny Munitions Center, Pennsylvania
- Milan Army Ammunition Plant, Tennessee
- Tooele Army Depot, Utah
- Pueblo Chemical Depot, Colorado
- Blue Grass Chemical Activity, Kentucky

CORE COMPETENCIES

- Performs research, development, production, storage, distribution and demilitarization of all conventional ammunition
- Manages personnel, organizations, infrastructure and processes required for life cycle management of conventional ammunition

CAPABILITIES & MISSION EXECUTION

JMC operates a nationwide network of government-owned, government-operated (GOGO) and government-owned, contractor-operated (GOCO), installations and facilities where ammunition is produced, stored, distributed and demilitarized.

Production, Storage, and Demilitarization facilities (GOGOs):

- Crane Army Ammunition Activity, Crane, Indiana
- McAlester Army Ammunition Plant, McAlester, Oklahoma
- Pine Bluff Arsenal, Pine Bluff, Arkansas

Production facilities (GOCOs):

- Holston Army Ammunition Plant, Kingsport, Tennessee
- Iowa Army Ammunition Plant, Middletown, Iowa
- Lake City Army Ammunition Plant, Independence, Missouri
- Radford Army Ammunition Plant, Radford, Virginia
- Scranton Army Ammunition Plant, Scranton, Pennsylvania
- Quad City Cartridge Case Facility, Rock Island, Illinois

Storage and Demilitarization facilities:

- Anniston Munitions Center, Anniston, Alabama
- Blue Grass Army Depot, Richmond, Kentucky
- Hawthorne Army Depot, Hawthorne, Nevada (GOCO)
- Letterkenny Munitions Center, Chambersburg, Pennsylvania

- Milan Army Ammunition Plant, Milan, Tennessee (GOCO)
- Tooele Army Depot, Tooele, Utah
- Pueblo Chemical Depot, Pueblo, Colorado
- Blue Grass Chemical Activity, Richmond, Kentucky

FIND OUT MORE

Joint Munitions Command
2695 Rodman Avenue
Bldg. 350, Room 563
Rock Island Arsenal, IL 61299-5000

<http://www.jmc.army.mil/>

 /JointMunitionsCommand

 @JMCMunitionsCmd

 /JointMunitionsCommand



ANNISTON MUNITIONS CENTER

LOCATION

- Anniston Army Depot, Alabama

CORE COMPETENCIES

- Ammunition renovation
- Ship, receive and outload
- Preservation, packaging and maintenance
- Quality assurance
- Explosive demilitarization
- Missile recycling

A convoy of 13 trucks laden with ammunition rolls out of Anniston Army Depot on its way to Crane, Ind., during the Golden Cargo training mission. (U.S. Army photo by Mark Cleghorn)



Anniston Munitions Center (ANMC) provides timely and accurate receipt, storage, issue, maintenance, inspection, demilitarization and recycling of ammunition and missiles.

INTRODUCTION

ANMC, a subordinate organization of Joint Munitions Command (JMC), provides America's joint forces with ready, realizable and lethal munitions at the right place and time in a cost-effective manner to enable successful military operations. The center is committed to delivering timely and accurate receipt, storage, issue, maintenance, inspection, demilitarization and recycling of ammunition and missiles in support of the joint warfighter.

Anniston Ordnance Depot was established in 1941; in 1952, it was assigned a maintenance mission for the overhaul and repair of combat vehicles. In 1962, the installation was renamed Anniston Army Depot (ANAD) and became part of the U.S. Army Materiel Command. In October 1998, operational control of ANAD was transferred to the U.S. Tank-automotive and Armaments Command and the ammunition mission and resources were renamed Anniston Munitions Center. ANMC became a tenant of ANAD and officially came under the full command and control of Blue Grass Army Depot in Richmond, Kentucky.

ANMC is housed on 13,160 acres with 33 buildings, more than 1,111 igloos and has a storage capacity of approximately 2 million square feet.



Paratroopers with Charlie Battery, 2nd Battalion, 319th Airborne Field Artillery Regiment, 82nd Airborne Division, work late into the evening preparing munitions for movement at Forward Operating Base Shalalot, Iraq. (U.S. Army photo by Sgt. Christopher Bigelow)

CAPABILITIES & MISSION EXECUTION

ANMC's commitment to providing the best possible support to the warfighter extends well beyond its physical location on Anniston Army Depot property in Anniston, Alabama.

The center is a multi-functional ammunition facility with its support and services being extended to all branches of the military and other agencies. The organization received its first on-site commander in June 2004. Previously these operations were conducted under the auspices of Anniston Army Depot's commander in the Directorate of Ammunition. ANMC is a site for missile and rocket maintenance, demilitarization and disposal. With more than 1,111 storage igloos, 450 of them are earth-covered Stradley igloos, which can store some of the Army's largest munitions.

INDUSTRIAL SKILLS AND FACILITIES

ANMC is the pilot location for environmentally sound demilitarization and recycling technologies such as recovery and processing of missile energetics and components while maintaining robust open burn/open detonation capabilities supporting Product Manager Demil efforts, including development of MLRS recycling capability and JMC's Integrated Logistics Strategy.

The center is well poised to capitalize on unique and modern munitions maintenance and demilitarization

capabilities as the Anniston Chemical Activity completes its demilitarization mission. ANMC integrally supports Lockheed Martin's missile maintenance facility.

FIND OUT MORE

Anniston Munitions Center
ATTN: JMBG-AN-PA
7 Frankford Avenue
Anniston, AL 36201-4199

CRANE ARMY AMMUNITION ACTIVITY

LOCATION

- Crane, Indiana

CORE COMPETENCIES

- Munitions and manufacturing
- Demilitarization
- Munitions and munitions-related maintenance and renovation
- Remote operations and environmental testing
- Logistics support
- Engineering



Crane Army Ammunition Activity Explosives Handler Jayne McIntosh stages 105 mm tank training cartridges for breakdown as part of a pull-apart demilitarization process. (U.S. Army photo by Sgt. 1st Class Michael Zuk)

Crane Army Ammunition Activity (CAAA) receives, stores, ships, produces, renovates and demilitarizes conventional ammunition, missiles and related components to meet contingency requirements in support of joint force readiness.

INTRODUCTION

CAAA, a subordinate of Joint Munitions Command, is an ammunition production, storage and maintenance facility located in southern Indiana. Its mission is to receive, store, ship, produce, renovate and demilitarize conventional ammunition, missiles and related components. The activity has a long history of producing pyrotechnic items, countermeasures and a variety of other ordnance items dating back to the 1940s.

CAAA was established in 1977 as a tenant on Naval Support Activity Crane (established in 1941 as Crane Naval Ammunition Depot) to implement the “single manager for conventional ammunition” concept. In October 1999, command and control of Letterkenny Munitions Center transferred to CAAA.

Co-located with Crane Naval Surface Warfare Center, CAAA is situated over 4.8 million square feet of explosive storage and production space, including 209 production buildings, a 72,000-square-foot machine shop, 1,800 storage buildings for both explosive and inert ammunition, an 80-acre demolition range, and 40 acres of ammunition burning grounds.

CAPABILITIES & MISSION EXECUTION

CAAA’s current efforts include shipping and receiving conventional ammunition in support of operations overseas, as well as training stateside. The activity containerizes pre-configured ammunition loads delivered directly to troops on the

ground, ships afloat and prepositioned stocks. They support magazines with both rail and truck access, blocking and bracing, and two modern containerization facilities to support sea/land containers.

CAAA's Logistics Operations' Team is a recognized leader in providing support to America's warfighters. With consistent focus on safe and excellent execution, Logistic Operations personnel perform the receipt, storage, preparation for shipment, transportation, shipment, inventory and intra-depot movement of ammunition and related items. The team executes a highly effective containerization mission to include a state-of-the-art container repair facility that also has a mobile repair capability. They strategically plan and execute the activity's ammunition surveillance program and function testing for the Ammunition Stockpile Reliability Program.

The activity ships an average 40,000 short tons of conventional ammunition per year in support of joint warfighters worldwide. Additionally, CAAA receives and stores over 50,000 short tons of conventional ammunition per year.

Crane stores approximately 20 percent of the prime warfighting and training assets for DOD. Storage facilities include above ground storage magazines that can accommodate projectiles, high explosives, black powder, fuzes and detonators.

Specialty transporters used to facilitate material movement include super stackers, a 50,000-pound rough-terrain container handler, an auto-railer and hi-lo trailers.

INDUSTRIAL SKILLS AND FACILITIES

Cast Load

CAAA has the ability to produce cast-loaded explosives utilizing production lines to mix, melt and hold kettles. Diverse processes and expertise enables the activity to melt and pour explosives with many different characteristics. They produce bombs, mines, shock test charges, demolition charges, underwater sound signals, cluster bombs and projectiles. Equipment is also available to thermally coat munitions.

Demilitarization

Disposing of excess or obsolete ammunition and explosives is critical for the safety of the ammunition stockpile and maintaining storage space for "go to war" items. Current methods utilized include: automated high-pressure washout, breakdown, steam-out, open burning, and open detonation. CAAA has facilities and capability for white phosphorous conversion, incineration, yellow-D conversion, APE 1236 deactivation furnace, depleted uranium demilitarization and magnesium reclamation.

Machining Center

CAAA's machine shop is equipped with the latest manufacturing technologies and equipment. A full complement of modern computer numerical control (CNC) machines (mills, lathes, laser fabrication center, wire electrical discharge machine, waterjet, etc.) offers versatility to machine a multitude of configurations. Crane has specialized and unconventional machine equipment with formidable manufacturing capabilities for all types of materials including tough alloys and exotic metals. Cleaning and finishing processes include chemical cleaning, ultrasonic cleaner, turbo washer, plating, titration, atomic absorption, powder coating, statistical process control, and workstation automated data collectors.

Manufacturing and Engineering

CAAA's Manufacturing and Engineering team is responsible for all ammunition explosive manufacturing operations performed by the Activity including production, renovation, modification, demilitarization of conventional ammunition and ammunition related components and machine shop functions. This highly effective team provides key engineering services and prepares associated plans for CAAA.

Press Load

With the availability of several presses, Crane's workforce can press load various compositions. From a single ram 500-ton press, to multiple ram high volume presses, operators can load 76 mm, through 155 mm projectiles, missile warheads, pyrotechnic items, and a variety of actuating devices and boosters.

Pyrotechnics

CAAA is a recognized center of technical expertise in the production of pyrotechnic devices including signal, smoke, illuminating and infrared (IR) items, illuminating projectiles, marine location markers, and IR flares for illumination in conjunction with night vision devices.

FIND OUT MORE

<http://www.crane.army.mil/>

 [/CraneArmyAmmo](#)

 [@CraneArmyAmmo](#)

 [/Crane Army Ammunition Activity](#)

LETTERKENNY MUNITIONS CENTER

LOCATION

- Chambersburg, Pennsylvania

CORE COMPETENCIES

- Logistics support
- Storage
- Non-destructive testing, very large X-ray
- Missile maintenance
- Munitions maintenance and renovation



Letterkenny Munitions Center employees Travis Reasner and Timothy Varner inspect a LAU-128 launcher. (U.S. Army photo)

Letterkenny Munitions Center (LEMC), located on Letterkenny Army Depot, conducts regional and global contingency distribution of munitions, provides missile maintenance, and conducts demilitarization of munitions for DOD.

INTRODUCTION

LEMC, a subordinate of Joint Munitions Command, offers the unique combined capabilities of ammunition logistics operations and the technical maintenance of missiles and their associated electronic and explosive components. The center has decades of experience working with diverse customers to include all military services and their related diversity of requirements, as well as supporting other government agencies and commercial customers. LEMC also has a wide number of Foreign Military Sales (FMS) customers.

The center delivers the right munitions on time to meet both training and warfighter needs and also provides mobile teams to support missiles in various overseas locations.

Letterkenny Army Depot was established in 1941 as an ammunition and general supply storage depot. In 1961, its Directorate of Ammunition Operations began supporting U.S. Army air defense missiles and U.S. Air Force intercept missiles. In 1999, the Directorate of Ammunition Operations was renamed Letterkenny Munitions Center with command and control transferred to Crane Army Ammunition Activity.

LEMC occupies 16,000 of Letterkenny Army Depot's 18,200 acres and includes 17 explosive operating buildings, 2.3 million square feet of explosive storage space, 902 igloos, 10 above-ground magazines, 26 rail docks, 28 miles of railroads, 126 miles of paved road and two containerization facilities/docks.

CAPABILITIES & MISSION EXECUTION

LEMC provides munitions and missile support, specializing in missile maintenance, repair and logistics. A highly trained and skilled workforce of electronics and ordnance mechanics is maintained, capable of doing electronic testing and repair of guidance systems, missile integration and modification.

The facility is a center for surveillance, receipt, storage, issue, testing and repair for the Army Tactical Missile System and Guided Multiple Launch Rocket System missiles, as well as a training site for Reserve ammunition units.

Major capabilities include demilitarization, resource recovery and reutilization for missiles and missile components, shipping container repair, missile container repair, and renovation of conventional munitions.

In its 70-plus year history as a munitions logistics and maintenance facility, LEMC has established the infrastructure, specialized workforce, and proven procedures necessary to meet today's technological challenges quickly and effectively. In sustaining organic capabilities, the center has maximized the use of its organic capacity through a number of direct sales, public-private teaming and workshare arrangements.

INDUSTRIAL SKILLS AND FACILITIES

Demilitarization and Conventional Maintenance

LEMC retains the capability to perform a wide range of conventional ammunition maintenance activities to include disassembly for demilitarization, renovation of artillery projectiles and small arms modification and preservation. The center pioneered the disassembly and demilitarization of a wide variety of air and ground launched tactical missiles. LEMC maintenance teams also perform a wide array of support functions such as inspection, maintenance, packing and shipping for various intelligence agencies involving foreign munitions.

Interservice Missile Maintenance

LEMC serves as the intermediate and depot-level maintenance facility for the Air Force, Navy and FMS customers for a variety of air-to-air and air-to-ground All-Up-Round (AUR) missile systems. The center's missile technicians continually adapt to an ever-changing missile environment. LEMC is a fully functional missile repair and upgrade facility and can perform missile tests and identify missile repair candidates using various common test sets as well as system specific test equipment.

Multiple Launch Rocket System Family of Munitions

LEMC has a maintenance facility to support both Army Tactical Missile Systems (ATACMS) and Guided Multiple Launched Rocket Systems (GMLRS). The center performs maintenance on rockets/missiles for the Army as well as the Marine Corps. The rebuild criteria used in the maintenance processes often exceeds that of the original manufacturer. LEMC's expertise includes initial inspection, disassembly, repair or replacement of defective subcomponents, reclamation, refinishing, reassembly, functional testing, POD conversion, and hybrid buildup. Technicians employ the latest technology to provide the safest and most reliable missiles and rockets.

Supply Depot Operations

Supply Depot Operations capabilities include shipping, receiving, storage and re-warehousing munitions as well as blocking and bracing of munitions, and a kiln facility for heat-treating wood packaging materials. These functions are all complemented by the availability of the depot's 28 miles of rail, 25 rail docks and secure gate parking for up to 28 tractor trailers. LEMC has close accessibility to several major transportation routes, rail interchanges and ports.

FIND OUT MORE

Letterkenny Munitions Center
ATTN: JMCN-MC
1 Overcash Avenue
Chambersburg, PA 17201-4150

www.jmc.army.mil/Installations.aspx?id=Letterkenny

MCALESTER ARMY AMMUNITION PLANT

LOCATION

- McAlester, Oklahoma

Heath Eldridge, left, and Brand Cochran monitor the transfer of explosives into the body of the BLU-109 C/B penetrator bomb during first article accepting testing at McAlester Army Ammunition Plant in Oklahoma. The 600-gallon mixing bowl rolls on a track to the back of the new B-line facility and is then elevated for the mix to be transferred into the bomb body that is secured below. (U.S. Army photo by Kevin Jackson)



McAlester Army Ammunition Plant (MCAAP) provides timely delivery of quality products and services in ammunition and missile production and maintenance to the joint force and partners.

INTRODUCTION

MCAAP's primary capabilities include ammunition production, ammunition and missile maintenance and renovation, logistics operations, and demilitarization of obsolete or unserviceable ammunition. It is one of Joint Munitions Command's key power projection platforms. As a bomb manufacturing, and ammunition and missile maintenance facility, MCAAP partners with commercial industry to expand its capabilities and strengthen its position within DOD. It is a major ammunition storage site for all branches of the Armed Forces.

MCAAP, a subordinate of Joint Munitions Command, is housed on 44,964 acres with 2,826 buildings, including 2,263 earth-coverage storage magazines, 173 storage warehouses, and a storage capacity of 8.8 million square feet.

CAPABILITIES & MISSION EXECUTION

Team members at the plant work on ammunition production, ammunition and missile maintenance, logistics operations, ammunition and missile demilitarization, and various support functions.

Capabilities include:

- Manufacturing
- Logistics support



Soldiers offload shipping containers in McAlester, Oklahoma, during Patriot Bandoleer, a long-haul transportation mission covering approximately 3,400 miles from Oklahoma to Concord, California, and back. (U.S. Army photo by Staff Sgt. Eric McDonough)

- Demilitarization/disposal
- Mobile Ammunition Renovation, Inspection and Demilitarization (MARID) team
- Safety and environmental protection
- Assists with research and development
- Renovation
- Mobile railroad maintenance team

INDUSTRIAL SKILLS AND FACILITIES

Ammunition Readiness

MCAAP is the bomb and warhead loading facility for DOD. Capabilities include high-capacity melt/pour and Plastic Bonded Explosive (PBX) bomb loading in large and small quantities. Plant products and services are available to other government agencies, defense contractors and foreign allies.

Demilitarization

MCAAP has a broad range of demilitarization capabilities, including open detonation, open burn, disassembly static fire, and meltout/recovery. The plant has state-of-the-art autoclave facilities dedicated to resource recovery, recycling and reutilization of obsolete or unserviceable munitions, with a capability to demilitarize many bombs.

Real-Time X-ray

MCAAP has an X-ray facility that provides high quality/low cost state-of-the-art radiographic imaging services. The X-ray facility has a dedicated team consisting of level-2 and level-3 certified radiographers.

Wood Products

MCAAP's wood product capabilities include an Automated Pallet Machine, Heat Treating Chambers and M-Guard Wood Preservation Dipping Facility. The plant specializes in producing and treating various sizes of pallets and boxes meeting the European Insect/Nematode Criteria.

FIND OUT MORE

McAlester Army Ammunition Plant
1 C Tree Road
McAlester, OK 74501-9002

www.mcaap.army.mil/

 /MCAAP

BLUE GRASS ARMY DEPOT

LOCATION

- Richmond, Kentucky

Pvt. Alexis Baker, 163rd Ordnance Company, stacks ammunition crates at Blue Grass Army Depot, Kentucky. (U.S. Army photo by Maj. Gregg Moore)



Blue Grass Army Depot (BGAD) provides America's joint warfighters reliable, timely and cost-effective munitions and chemical defense equipment in support of full spectrum military operations, and is also responsible for safeguarding the remainder of the national chemical weapons stockpile until demilitarization.

INTRODUCTION

BGAD is a multifunctional Class V facility with regional and national conventional support missions. The organization, a subordinate of Joint Munitions Command, strives to provide munitions for America's warfighters through world-class global logistics.

The depot seeks to team with private industry to develop solutions to difficult projects, providing industrial capability, rapid response, quick turnaround and small batch industrial production capabilities. It has hundreds of acres of storage available and is environmentally permitted for explosives and munitions capabilities. The organization has experience working with other government agencies on quick turnaround projects.

BGAD has the environmental permits as required by regulations and the stewardship initiatives for proper management of environmental programs in support of conventional mission, chemical demilitarization and other tenant operations. The installation is in compliance with relevant state and federal laws and regulations.

The depot features 1,228 structures including 902 igloos with a storage capacity of more than 3.2 million square feet. It also has 706 other assets such as roads, fences, utilities, rail track, culverts, bridges, dams, etc.



Cavalry Scouts from the 1st Battalion, 77th Armored Regiment mount a Bradley Fighting Vehicle at Udairi Training Range in Kuwait recently as part of a combined exercise. (U.S. Army photo by Sgt. Brandon Hubbard)

CAPABILITIES & MISSION EXECUTION

- Industrial services support
- Ammunition maintenance, renovation, disassembly and demilitarization
- Thermal arc coating for Air Force bombs
- Water washout facility with flaker belt
- Molten Salt Research and Development Facility
- Ultrasonic testing for mortar ammunition
- Chemical Material Surveillance program
- Quality assurance and joint logistics support
- Ammunition life cycle management
- Chemical defense equipment

INDUSTRIAL SKILLS AND FACILITIES

BGAD provides rapid response, quick turnaround, small batch industrial production facilities. Its wide-range of capabilities include:

Chemical Defense Equipment – BGAD provides worldwide support to chemical defense equipment through storage, inspection, testing and shipment of needed materials.

Munitions Support – Blue Grass is a multifunctional Class V facility with both regional and national conventional support missions, offering industrial services support in: ammunition maintenance, renovation, disassembly and demilitarization; thermal arc coating of Air Force bombs; water washout facility with flaker belt; ultrasonic testing for mortar ammunition; quality assurance and joint logistics support; and ammunition life cycle management.

Non-Hazardous Inert Munitions Metal Shredder – The depot maintains a shredder that performs destruction/size reduction on items from current DOD inventory for demilitarization.

Specialized Armor – BGAD is involved in the manufacturing of specialized armor components for armored vehicles. International Organization for Standardization and manufacturing certifications, combined with metal-working capabilities, have enhanced BGAD's value to both the warfighter and DOD.

Quality Commitment – The depot emphasizes quality in all products delivered to customers, everything produced goes through quality inspections. BGAD manages and maintains the depot Chemical Materiel Surveillance Program database for lot management, manages stock condition, assigns receipt condition codes and reclassifying stock. The organization also manages the issue, inventory and certification of protective mask testers and calibration of CDE test equipment. BGAD inspects shipments for proper lot selection, packaging and markings by serviceability standards and customer requirements. BGAD develops quality management plans and interprets technical data package requirements assisting management of building quality into the process.

FIND OUT MORE

Blue Grass Army Depot
431 Battlefield Memorial Hwy.
Richmond, KY 40475

<http://www.bluegrass.army.mil/>

 [/Bluegrassarmydepot/](#)

 [/BGADPAO](#)

PINE BLUFF ARSENAL

LOCATION

- Pine Bluff, Arkansas

CORE COMPETENCIES

- Chemical defense and test equipment
- Individual and collective chemical protection and decontamination systems
- Chemical materiel surveillance program
- Machining, fabrication and assembly
- Specialty ammunition production
- Less-than-lethal ammunition production
- Quality assurance and joint logistics services



Pine Bluff Arsenal (PBA) provides America's joint warfighter with specialized ammunition, smoke and chemical, biological, radiological and nuclear defense capabilities through expert manufacturing, storage and logistics.

Pine Bluff Arsenal production workers Sam Whitfield, Andrew Scruggs, Glen Carter and Garry Watkins work on the M930 VL mortar body load line. (U.S. Army photo by Sgt. 1st Class Michael Zuk)

INTRODUCTION

PBA serves as the Joint Services Center of Expertise of Industrial and Technical Excellence for Chemical/Biological Defense Equipment maintenance. It performs production, testing, certification and training of chemical and biological defense systems.

PBA manufactures and refurbishes smoke, riot control and incendiary munitions, as well as chemical/biological defense operations items. PBA's flexible production team allows for the efficient and quality production of a variety of smoke, illuminating and non-lethal munitions.

The arsenal stores and disposes of various chemical weapons and munitions and works with local, state and federal agencies to safeguard the surrounding communities and protect the environment during these processes.

PBA, a subordinate of Joint Munitions Command, is housed on 13,493 acres with 665 buildings, 271 igloos and a storage capacity of more than 2 million square feet. The location has more than 5,000 acres of developable land.

CAPABILITIES & MISSION EXECUTION

PBA, a working capital-funded activity, is allowed to manufacture or remanufacture and sell products and services to other government agencies and the private sector. The arsenal supports design agencies with development and engi-



Joyce Ladd works at a sewing station on the new textile production line at Pine Bluff Arsenal. (U.S. Army photo Rachel Selby)

neering, prototype production, testing and demonstration of chemical/biological protective equipment.

PBA possesses approximately 100 air, water and hazardous waste permits to sustain the manufacturing facilities. The permits include Resource Conservation and Recovery Act permitted landfills, Title V Clean Air Act point source permits, and National Pollutant Discharge Elimination System surface impoundments.

The wage-grade-workforce is qualified under a standardized Industrial Worker position that pre-certifies and cross-trains the workforce for intra-arsenal transfer between manufacturing areas. The building, repair and reset of chemical and biological defense equipment is a fast-growing field of expertise at PBA.

INDUSTRIAL SKILLS AND FACILITIES

PBA possesses numerous capabilities in the field of chemical and biological defense. The capabilities range from batch and continuous chemical processing technologies, specialized fabrication and packaging processes, production or rebuild of decontamination systems and more.

Ammunitions Operations – PBA's flexible production team allows for the efficient and quality production of a variety of smoke, illuminating and non-lethal munitions.

Pine Blue Chemical Agent Disposal Facility – Designed to destroy the chemical weapons stored at PBA, the facility was completed in 2002 and uses high-temperature incineration technology to safely and successfully dispose of more than a quarter of the nation's original chemical weapons.

Pine Blue Ton Container Decontamination Facility – The facility cuts and cleans ton containers that once held chemical agents and then prepares the containers for recycling.

Pine Blue Munitions Assessment System – The system safely assesses the contents inside of a chemical weapon to determine the type of chemical agent inside.

Pine Bluff Binary Destruction Facility – The facility treats and destroys binary precursor chemicals that remain stored at the arsenal as a result of the binary chemical weapons program.

The Explosive Destruction System – This mobile treatment system treats explosive and non-explosively configured chemical weapons recovered during remediation efforts at the arsenal.

The Rapid Response System – This mobile treatment system treats recovered chemical agent identification set items.

FIND OUT MORE

Pine Bluff Arsenal
10020 Kabrich Circle
Pine Blue, AR 71602

<http://www.pba.army.mil/>

 /AmericasArsenal

TOOELE ARMY DEPOT

LOCATION

- Tooele, Utah

CORE COMPETENCIES

- Receives, stores, issues conventional ammunition
- Demilitarization
- Renovation of conventional ammunition
- Serves as APE center

Sgt. Brian Carter, allied trade specialist assigned to 542nd Support Maintenance Company, 593rd Expeditionary Sustainment Command, welds beams together for future use in repairing shipping containers for ammunition during Operation Overblast at Tooele Army Depot, Utah. (U.S. Army photo by Sgt. Daniel Schroeder)



Tooele Army Depot (TEAD) remains the Department of Defense's western region conventional ammunition hub and Ammunition Peculiar Equipment (APE) center.

INTRODUCTION

TEAD supports warfighter readiness through superior receipt, storage, issue, demilitarization and renovation of conventional ammo and the design, manufacture, fielding and maintenance of ammo peculiar equipment.

With a unique bilateral structure, TEAD has a dedicated ammunitions group and a dedicated engineering group, enabling the organization to meet the most taxing challenges dealing with explosives, propellants, chemical agents and other hazardous materials.

TEAD, a subordinate of Joint Munitions Command, is responsible for shipping, storing, receiving, inspecting, demilitarizing and maintaining training and war reserve conventional ammunition. Tooele's Ammunition Equipment Directorate designs and manufactures ammunition peculiar equipment used in maintenance and demilitarization of munitions for all services of the Department of Defense.

Combined, TEAD North and South house more than 43,000 acres with 1,093 buildings, 1,110 igloos and a storage capacity of more than 2.4 million square feet.

CAPABILITIES & MISSION EXECUTION

TEAD, a subordinate of Joint Munitions Command, delivers the right ammunition on time to meet both training and warfighter needs. The organic base has the right facilities, equipment and trained workforce to meet the out load requirements. The depot specializes in ammunition logistics and the engineering,

design, proto-typing and manufacture of ammunition-related equipment.

Additionally, TEAD's services include design, fabrication, equipment integration and specialized expertise in energetics and hazardous materials. The depot's equipment and services are used throughout the world. In its 70-plus year history as an ammunition management and development facility, TEAD has established the infrastructure, specialized workforce and proven procedures necessary to meet today's technological challenges quickly and effectively.

INDUSTRIAL SKILLS AND FACILITIES

In sustaining organic capabilities, TEAD has maximized the use of its organic capacity through a number of direct sales, public-private teaming and workshare arrangements. The depot has the unique facilities, equipment and capabilities to meet a variety of projects for ammunition maintenance and demilitarization, production-level manufacturing, equipment design, fabrication, prototyping and testing, robotics, engineering, function testing, ammunition peculiar equipment, and ammunition explosives test facility.

Capabilities include:

- Engineering
- Explosives performance testing
- Logistical support
- Machining, fabrication, assembly and repair
- Non-destructive testing
- Slurry Emulsion Manufacturing Facility
- Robotics

Ammunition Peculiar Equipment – TEAD is the National Inventory Control Point for ammunition peculiar equipment – items specifically designed for ammunition specific operations.

Ammunition and Equipment Testing Range – TEAD has a unique test range, which enables destructive or non-destructive testing on ammunition and high explosives.

Consulting – TEAD has the technological personnel and resources to quickly meet diverse ammunition-related consulting needs.

Container Repair Facility – TEAD has the capabilities to repair MILVAN or shipping containers to meet ISO container requirements.

Demilitarization – TEAD offers complete disposal services for aging and obsolete ammunition.

Maintenance and Production – TEAD meets the maintenance and production needs of both government and commercial clients.

Manufacturing and Engineering – TEAD's engineering and technology team delivers a wide range of solutions for ammunition, hazardous materials and routine manufacturing to clients worldwide.

Power Projection – TEAD boasts a major rail line, two interstate highways and three airports in close proximity to the facility. It is the hub of the West for rail, truck and air shipments and can employ one-day delivery to West Coast ports.

Robotics, Material Handling and Remote Control Vehicles – TEAD leads the industry in the design and manufacture of robotic and autonomous vehicles for ammunition operations.

Storage – Tooele Valley is located within the western desert and, with low humidity, is the ideal climate for long-term storage of ammunition.

Surveillance Function Testing/Mobile Inspections – TEAD offers a variety of ammunition inspections that ensure the safe receipt, storage and issue of ammunition.

Training – TEAD offers an ideal, real world environment for Reserve and National Guard training exercises.

FIND OUT MORE

Tooele Army Depot
1729 Main Street
Tooele, UT 84074

www.tooele.army.mil/

 /TooeleArmyDepot



U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND

The U.S. Army Research, Development and Engineering Command (RDECOM), a subordinate of U.S. Army Materiel Command, has almost 14,000 scientists, engineers and other professionals working worldwide on a strategic portfolio that balances the development of technology-enabled solutions for the current fight with investments in future capabilities to give the Army a decisive advantage.

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland – Headquarters
- Adelphi, Maryland
- Natick, Massachusetts
- Picatinny, New Jersey
- Redstone Arsenal, Alabama
- Warren, Michigan

CORE COMPETENCIES

- Fundamental and applied research
- Technology development and engineering
- Technology-enabled capability demonstrations
- Enterprise efficiencies
- External engagement and support

INTRODUCTION

To accomplish its critical mission, RDECOM is composed of six Research, Development and Engineering Centers and the Army Research Laboratory, and is the focal point for integrating and accelerating innovative technologies.

Headquartered at Aberdeen Proving Ground, Maryland, RDECOM maintains thousands of active domestic and international partnerships within a global science and technology ecosystem, including agreements with academic institutions, small business, industry and other government agencies.

These relationships, combined with its workforce, give the command the reach, position, scale and technical expertise to ensure decisive capabilities for today's Soldiers and the future Army, as well as foundational capabilities for the joint warfighter. They also allow RDECOM to bridge the requirements community of the Training and Doctrine Command, which defines future Army needs, and the Assistant Secretary of the Army (Acquisition, Logistics and Technology) Program Manager community, which brings those capabilities to the field.

ABOVE: Natick Soldier Research, Development and Engineering Command's virtual reality dome enables researchers to assess the impact of the environment on Soldier cognition, including decision-making, spatial memory or wayfinding. Researchers will also be able to assess the impact of new equipment on cognitive abilities. (U.S. Army photo by David Kamm)

OPPOSITE PAGE: Dan Baechele, right, a mechanical engineer with the U.S. Army Research Laboratory, uses high-speed motion sensor OptiTrack cameras mounted around the test area to monitor a mechatronic arm exoskeleton's effect on simulated shooting. Sean Averill, a Drexel University Mechanical engineering student, assists with the project. (U.S. Army photo by Doug LaFon)

CAPABILITIES & MISSION EXECUTION

RDECOM tackles high-priority technology challenges by performing research, development and engineering too risky or too Army-specific for industry or academia. RDECOM's civilian scientists and engineers execute these critical services more cost-effectively than external organizations.

The organization's technological expertise, systems engineering discipline, analytical capabilities and collaborative reach give the Army an organic research and development capability on the cutting-edge of technology across the full spectrum of operations.

RDECOM's core functions include delivering technological expertise, systems engineering discipline, analytical capabilities and collaborative reach, as well as delivering organic concepts and requirements-driven research, development and engineering capabilities.

FIND OUT MORE

U.S. Army Research, Development and Engineering Command
3073 Aberdeen Blvd., Room 105
Aberdeen Proving Ground, MD 21010

<https://www.army.mil/info/organization/unitsand-commands/commandstructure/rdecom>

 /usarmyrdecom/

 @RDECOM

 /RDECOM



AMC RESEARCH & DEVELOPMENT PRIMARY LOCATIONS

The U.S. Army Research, Development and Engineering Command (RDECOM) oversees six research, development and engineering centers and two Army Research Laboratory locations which act as focal points for integrating and accelerating innovative technologies. RDECOM also oversees the RDECOM Forward Element Commands, organizations that seek state-of-the-art science and technology solutions and work to develop security cooperation through international collaboration.

ECBC LOCATION
Pine Bluff Arsenal, AR

AMRDEC LOCATION
Colorado Springs, CO

AMRDEC LOCATION
Moffett Field, CA

ARL WEST
University of Southern California

ARDEC LOCATION
Rock Island Arsenal, IL

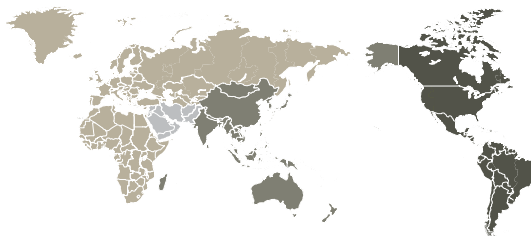
ECBC LOCATION
Rock Island Arsenal, IL

ARL LOCATION
White Sands Missile Range, NM

AMRDEC LOCATION
Corpus Christi Army Depot, TX

RDECOM FORWARD ELEMENT COMMANDS (RFECs)

- RFEC-Americas**
Santiago, Chile
- RFEC-Atlantic**
London, England
- RFEC-Pacific**
Tokyo, Japan



**U.S. ARMY TANK
AUTOMOTIVE RESEARCH,
DEVELOPMENT AND
ENGINEERING CENTER
(TARDEC)**

Headquarters
Detroit Arsenal, MI

**U.S. ARMY RESEARCH
LABORATORY (ARL)**

Headquarters
Adelphi Laboratory Center, MD

**U.S. ARMY
EDGEWOOD CHEMICAL
BIOLOGICAL CENTER (ECBC)**

Headquarters
Aberdeen Proving Ground –
Edgewood Area, MD

CERDEC LOCATION
Fort Belvoir, VA

ARDEC LOCATION
Watervliet Arsenal, NY

**U.S. ARMY NATICK SOLDIER
RESEARCH, DEVELOPMENT
AND ENGINEERING CENTER
(NSRDEC)**

Headquarters
Natick, MA

CERDEC LOCATION
Joint Base McGuire-
Dix-Lakehurst, NJ

**U.S. ARMY ARMAMENT
RESEARCH, DEVELOPMENT
AND ENGINEERING CENTER
(ARDEC)**

Headquarters
Picatinny Arsenal, NJ

**U.S. ARMY
COMMUNICATIONS-
ELECTRONICS RESEARCH,
DEVELOPMENT AND
ENGINEERING CENTER
(CERDEC)**

Headquarters
Aberdeen Proving Ground, MD

**U.S. ARMY RESEARCH,
DEVELOPMENT AND
ENGINEERING COMMAND
(RDECOM)**

Headquarters
Aberdeen Proving Ground, MD

ARDEC LOCATION
Aberdeen Proving Ground, MD

ARL LOCATION
Aberdeen Proving Ground, MD

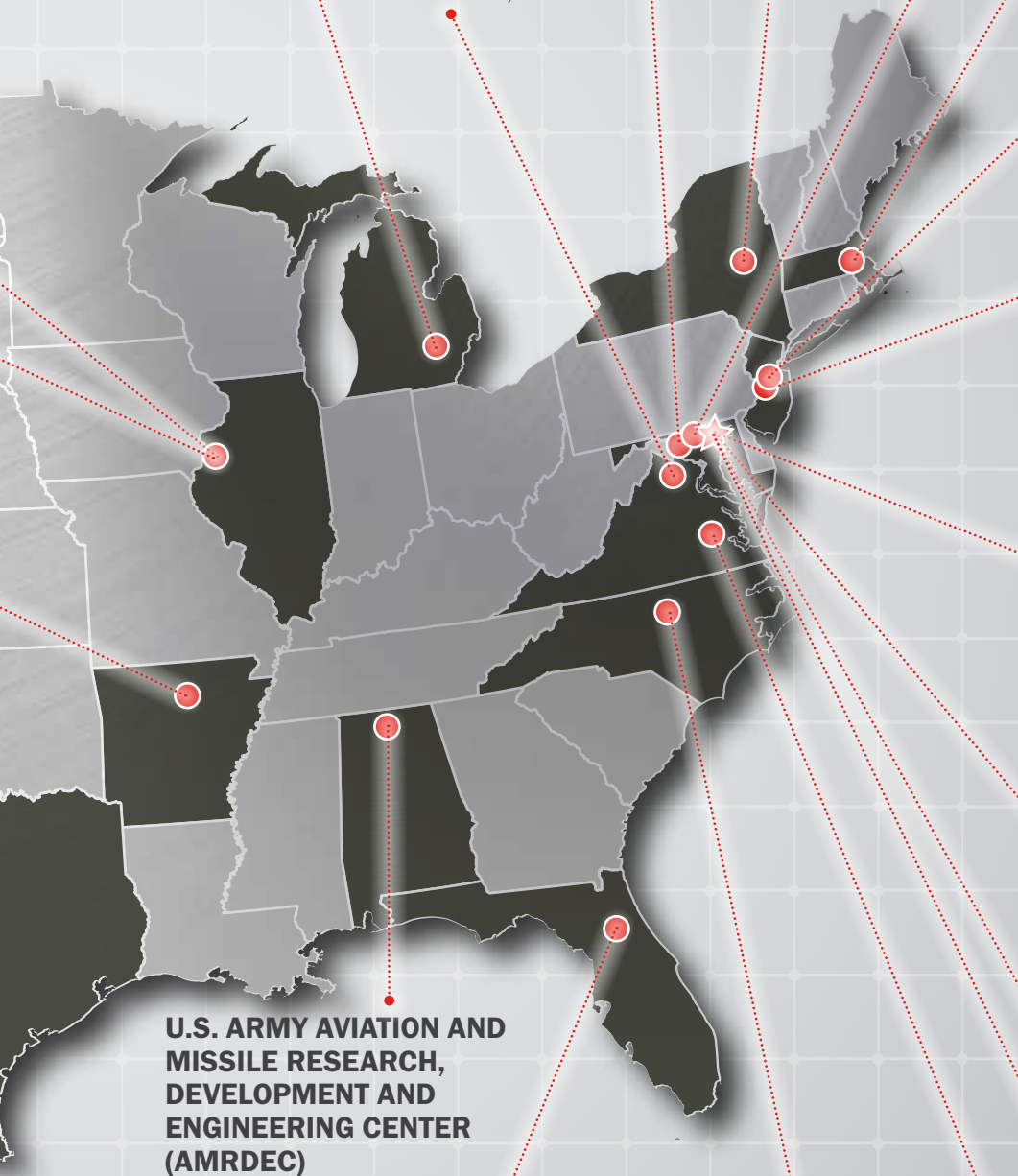
**U.S. ARMY AVIATION AND
MISSILE RESEARCH,
DEVELOPMENT AND
ENGINEERING CENTER
(AMRDEC)**

Headquarters
Redstone Arsenal, AL

ARL LOCATION
Orlando, FL

ARL LOCATION
Raleigh-Durham, NC

AMRDEC LOCATION
Joint Base Langley-Eustis, VA



U.S. ARMY RESEARCH LABORATORY

PRIMARY LOCATIONS

- Adelphi Laboratory Center, Maryland – Headquarters
- Aberdeen Proving Ground, Maryland
- Research Triangle Park, North Carolina
- White Sands Missile Range, New Mexico
- Orlando, Florida



Researchers at the Army Research Laboratory work with partners in academia to explore concepts such as camera-enabled quadrotors to create and capture 3-D imaging for military training, making it more cost-efficient and portable. (Photo by Stephanie Kleinman, ICT)

The U.S. Army Research Laboratory (ARL) is focused on unifying researchers from across the globe to address the Army's top enduring science and technology challenges.

INTRODUCTION

ARL's mission is to discover, innovate and transition technology to ensure dominant military land power. The lab's research continuum covers long-term and fundamental research that explores new technologies.

ARL, a subordinate of U.S. Army Research, Development and Engineering Command, partners with academia and industry to find solutions for the nation's toughest challenges to land forces. Scientists and engineers at ARL often take the first scientific look at an Army problem. In partnerships with other research and development organizations, the technology is then matured.

Laboratory research is typically directed toward long-term projects, with the transition of a proven concept to an Army organization that is focused on maturing and fielding technology. In rare cases, such as developing more effective armor for military vehicles, ARL's sciences for lethality and protection are critical and immediate.

CAPABILITIES & MISSION EXECUTION

ARL drives innovation and discovery in power projection, information, lethality and protection, and Soldier performance for the Army of the future by using eight science and technology (S&T) campaigns:

- Extramural Basic Research;
- Computational Sciences;
- Materials Research;
- Sciences-for-Maneuver;
- Information Sciences;
- Sciences-for-Lethality and Protection;
- Human Sciences; and
- Assessment and Analysis.

Each campaign is designed to unravel and exploit S&T developments leading to power projection superiority, information supremacy, Soldier performance augmentation, and lethality and protection superiority. All are essential to the U.S. Army.

ARL's unique facilities and workforce of 1,900 federal employees, coupled with its private sector partners, make it the largest source of world-class integrated research and analysis in the Army.

The lab seeks opportunities to bring government and business together in an open campus business model. In 2015, ARL established an Army presence in Playa Vista, California, the largest university outpost and the first one west of the Mississippi River. The initial focus of ARL West is on virtual reality and immersive technology for Soldiers.

UNIQUE R&D FACILITIES

ARL's fundamental mission is to provide technologies that revolutionize the capabilities of America's Soldiers now and into the future. ARL's research continuum stretches from early, long-term basic research to evolving new technologies that support current operations.

Cognitive Assessment, Simulation and Engineering Laboratory – This lab is a standalone behavioral research facility that provides several capabilities to better understand and improve individual and team performance.

Department of Defense Supercomputing Resource Center – This center provides efficient operation of large-scale, high-performance computing, storage and facilities equipment for both classified and unclassified scientific computing for a wide class of DOD and Army critical applications.

Electro-Optical Vulnerability Analysis Facility – This facility possesses theoretical, laboratory and field capabilities for performing optical cross section, laser jamming and damage, and optical performance characterizations of optical/electro-optical devices used by weapons systems.

Electro-Optical Vulnerability Assessment Facility – This facility addresses the complete electromagnetic threat being encountered in theater and anticipated for the future force.

Environment for Auditory Research – This auditory perception and communication research center permits state-of-the-art simulation of various indoor and outdoor acoustic environments.

Novel Energetic Research Facility – This facility contains a processing complex with energetics processing, manufacturing labs and a formulation complex with energetics formulation and energetics properties labs.

Power Conditioning Research Facility – This lab provides the Army and DOD with a full-scale test bed for development, evaluation and demonstration of continuous power components for hybrid electric vehicle mobility systems and pulse power components for survivability/lethality systems for hybrid electric vehicles and survivability systems for current force platforms.

Rodman Materials Research Laboratory – This lab is a world class, 300,000-square-foot research facility that enables the pursuit of disruptive and challenge research and characterization in advanced materials technology for potential applications in Army weapon systems.

Rotorcraft Survivability Assessment Facility – This facility provides a range of survivability experimental services to support advanced system development, response to new threats and live fire testing.

Spesutie Island Ballistic Experimentation Facilities – These facilities provide the capability to conduct experiments and analyses with small arms ranges.

Vehicle Research Laboratory – This facility encompasses numerous test capabilities aimed at conducting research, development, testing and evaluation on vehicle structures, dynamics, mechanics and propulsion systems.

Wireless Emulation Laboratory – This lab is an integral part of intrusion detection for mobile ad hoc networks and network science programs.

Zahl Physical Sciences Laboratory – This lab is the national center of excellence that enables basic and applied research in nano-biotechnologies, flexible electronics, advanced specialty electronics growth, nonlinear materiel research and characterization, and power electronics.

FIND OUT MORE

U.S. Army Research Laboratory
ATTN: RDRL-DPA
2800 Powder Mill Road
Adelphi, MD 20783-1138

<https://www.arl.army.mil>

 /ArmyResearchLaboratory

 @armyresearchlab

 /ARLTVNews

U.S. ARMY AVIATION AND MISSILE RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PRIMARY LOCATIONS

- Headquartered at Redstone Arsenal, Alabama
- Joint Base Langley-Eustis, Virginia
- NASA Ames Research Center, Moffett Field, California
- NASA Langley, Hampton, Virginia
- Corpus Christi, Texas
- Colorado Springs, Colorado



ABOVE AND RIGHT: Environmental issues, such as desert sand, fog, and dusk, are addressed in the aviation and missile engineering designs developed by the U.S. Army Aviation and Missile Research, Development and Engineering center (AMRDEC) at Redstone Arsenal, Alabama. (U.S. Army photo)

The U.S. Army Aviation and Missile Research, Development and Engineering Center (AMRDEC) is the Army's focal point for providing research, development and engineering technology and services for aviation and missile platforms across the life cycle.

INTRODUCTION

AMRDEC, a subordinate of U.S. Army Research, Development and Engineering Command, delivers collaborative and innovative aviation and missile capabilities for responsive and cost-effective research, development and life cycle engineering solutions. Many DOD and federal agencies, as well as academic, corporate and industrial researchers and developers, seek AMRDEC's science and technology expertise, which is characterized by its talented and technically proficient workforce and unique test bed capabilities.

CAPABILITIES & MISSION EXECUTION

AMRDEC supports the warfighter around the world with its 3,000+ talented and technically-proficient government employees located at the headquarters on Redstone Arsenal, Alabama; Joint Base Langley-Eustis, Virginia; NASA Ames Research Center at Moffett Field, California; NASA Langley in Hampton, Virginia; Corpus Christi, Texas; and Colorado Springs, Colorado.

With 1.9 million square feet of laboratory space, AMRDEC is home to five directorates including: Aviation Development Directorate; Aviation Engineering Directorate; Engineering Directorate; Systems Simulation, Software and Integration Directorate; and Weapons Development and Integration Directorate. AMRDEC supports approximately 20 missile systems, 10 aviation platforms, numerous unmanned platforms, and other major weapon systems.

UNIQUE R&D FACILITIES

AMRDEC boasts a wide range of R&D capabilities that provide one-stop life cycle engineering support for aviation and missile weapon systems and unmanned aerial and ground-vehicle platforms.

Advanced Prototyping and Experimentation Laboratories I and II – This unique laboratory facilitates development testing of advanced aviation crew stations (cockpits) for technology assessment, requirement verification/validation, early user demonstrations, preliminary airworthiness assessments and pilot-vehicle- interface human factors analyses.

PATRIOT Advanced Capability-3 Millimeterwave Simulation System-2 Hardware-in-the-Loop (PAC-3 MSS-2 HWIL) – The PAC-3 MSS-2 HWIL facility is capable of simulating a total flight environment for millimeterwave missile systems. The MSS-2 HWIL laboratory provides complex radio frequency (RF) target and environmental simulations in a real time operating environment, for closed-loop launch-to-intercept engagements, using tactical PATRIOT Advanced Capability-3 (PAC-3) missile hardware and software.

Ballistic Test Facility – This test facility consists of air and missile defense tactical system assets, commercial version equivalent assets, interface representations, input simulations, analysis systems and data collection systems.

Imaging Infrared Simulation System (IIRSS) – The IIRSS facility provides state-of-the-art hardware-in-the-loop (HWIL) test capability for the Terminal High Altitude Air Defense (THAAD) Missile System. The central feature of the facility is the five-axis Flight Motion Simulator (FMS) that provides both relative target and true missile rotational motion during hardware-in-the loop simulations. This facility integrates all the major parts of a HWIL simulation; tactical missile and seeker hardware, executive control software, scene generation, and an IR projection system.

Software Engineering Directorate (SED) – SED provides state-of-the-art software support to non-tactical government agencies and programs, and remains an expert in the Army's policies and practices regarding cyber security, Information Assurance, software reuse, software metrics, post deployment software support, process improvement, computer resource margins analysis and risk management. SED provides the highest quality support in the areas of joint interoperability testing, gaming, software and systems engineering, and the acquisition, research, development, and sustainment of some of the nation's most sophisticated weapon systems.



National Full-Scale Aerodynamics Complex Platform Integration Laboratory – This wind tunnel is used for basic and applied research in aeromechanics on advanced testing of full scale rotorcraft.

Prototype Integration Facility – This facility is approximately 60,000 square feet and houses unique capabilities able to produce electrical and mechanical parts, sub-assemblies and associated platform integration.

Structural Test Facility – This lab has a rotor blade test fixture for loads and fatigue testing.

FIND OUT MORE

U.S. Army Aviation and Missile Research, Development and Engineering Center
AMRDEC Public Affairs Office
RDMR-CSP
Bldg. 5400
Redstone Arsenal, AL 35898

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 /RDECOM.AMRDEC/

 @USArmyAMRDEC

 /AMRDEC

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PRIMARY LOCATIONS

- Picatinny Arsenal, New Jersey – Headquarters
- Rock Island Arsenal, Illinois
- Aberdeen Proving Ground, Maryland
- Watervliet Arsenal, New York

A U.S. Army infantryman, assigned to 2nd Cavalry Regiment, prepares to throw a training hand grenade during the 173rd Airborne Brigade's Expert Infantryman Badge training phase at the 7th Army Training Command's Grafenwoehr Training Area in Germany. Engineers at the U.S. Army Research, Development and Engineering Center are developing the Enhanced Tactical Multi-Purpose hand grenade, the first new lethal hand grenade developed by the Army in 40 years. The Soldier will be able to select and use different effects simply by flipping a switch on the grenade. (U.S. Army photo by Spc. Nathanael Mercado)



The U.S. Army Armament Research, Development and Engineering Center (ARDEC) is an internationally recognized hub for the advancement of armaments technology and engineering innovation.

INTRODUCTION

ARDEC, a subordinate of U.S. Army Research, Development and Engineering Command, partners with industry, academia and other government agencies to accelerate the development and transition of new technologies to ensure decisive overmatch capabilities for unified land operations. The center's mission is to empower, unburden and protect the warfighter by providing superior armaments solutions that dominate the battlefield.

ARDEC's workforce provides product life cycle support for 90 percent of the armaments used every day by the warfighter. These include small-, medium- and large-caliber weapons, warheads, guidance systems, explosives, propellants, ammunition and related support systems. These products are used by the Department of Defense's joint military services and the Department of Homeland Security.

Although ARDEC's principal mission is to develop and mature technologies for armament and homeland defense applications, it also looks for ways to transfer beneficial technologies for public use. ARDEC maintains an effective and inclusive enterprise to support collaboration, new and emerging technology sources and growth in the areas critical to America's armament academic and industrial base.

CAPABILITIES & MISSION EXECUTION

Technology transfer partnering agreements match opportunities with partnering tools. Companies benefit from ARDEC technologies through technology transfer mechanisms such as contracts; cooperative research and development agreements (CRADAs); consortia; and more.

ARDEC's workforce includes more than 3,400 civilian engineers, scientists and support personnel. Nearly 20 percent of the technical staff has earned one or more doctorate or master's degrees. ARDEC professionals publish more than 100 technical papers a year and submit many patents in their areas of expertise. ARDEC's workforce participates in several national and international conferences and symposia.

ARDEC is the largest entity at Picatinny Arsenal, New Jersey, with more than 500 buildings and 64 laboratories. ARDEC maintains some of the world's most advanced experimental research, development and engineering facilities to support the development of breakthrough armaments and munitions systems. ARDEC has a major presence at Watervliet Arsenal, New York – Benét Laboratories, which is the Army's design authority for large-caliber armaments, mortars and direct-fire systems. Benét's laboratories and research capabilities are enhanced by its co-location with Watervliet's large-caliber manufacturing facilities. The center also has a team at Rock Island Arsenal, Illinois, that executes life cycle engineering processes required for items in production.

UNIQUE R&D FACILITIES

ARDEC's principal mission is to develop and mature technologies for armament and homeland defense applications. The center maintains collaboration, new and emerging technology sources and growth in the areas critical to America's armament, academic and industrial base.

Armament Software Engineering Center – This center provides software engineering and software acquisition support services for weapon systems, training devices and combat support systems throughout the entire life cycle.

Armament Technology Facility – This complex provides full-service ballistic and non-ballistic, research, design, development and evaluation capability for small- and medium-caliber weapons, ammunition and their ancillary equipment.

Breech and Tube Fatigue Test Facility – Watervliet Arsenal's facility provides the capability of duplicating firing pressures in its breech mechanism and tube test facilities.

Davidson Advanced Warhead Development Facility – This indoor facility tests shaped charges, explosively formed penetrators and other warheads.

Energetics Experimentation Research and Development Facility – This unique 200,000-square-foot complex, located at Picatinny Arsenal, enables the R&D and life cycle engineering and sustainment of energetic materials for both munitions/missile and survivability applications.

Explosive Ordnance Disposal Facility – This facility is used to perform disassembly, stripping and inerting of foreign ordnance to develop render-safe procedures; develop appropriate training aids for Explosive Ordnance Device specialists and enable foreign military exploitation.

Fuze Development Center – This unique 55,000-square-foot complex enables the R&D, life cycle engineering and sustainment of fuzing systems and related technologies.

Operational Simulation Analysis Center – A comprehensive modeling and simulation facility, which integrates ARDEC engineering, operational, logistics and visualization capabilities as well as external Army capabilities through the use of distributed simulation technologies.

Particulate Materials and Nanotechnology Center – This center is a one-stop-shop integrated prototyping facility offering the capability to fabricate bulk nano-structured components.

Precision Armaments Laboratory – This lab is the only DOD facility dedicated to conducting automated experimentation, tests and evaluation of sensing devices during adverse weather conditions.

Soft Recovery System Facility – This facility provides a unique capability to non-destructively soft catch experimental and developmental gun-fired conventional, smart- and precision-guided munitions, sensors, guidance devices and fuzes.

Target Behavior Response Laboratory – This facility provides the ability to conduct applied research on changes in human behavior in response to less-than-lethal weapons and systems, scalable effects, lethality-enabling systems and emerging technologies.

FIND OUT MORE

U.S. Army Armament Research, Development and Engineering Center

Picatinny, NJ 07806-5000

<http://www.ardec.army.mil/>

Technology Transfer Programs: www.pica.army.mil/ TechTran

 [/RDECOM.ARDEC](https://www.facebook.com/RDECOM.ARDEC)

 [@ardec](https://twitter.com/ardec)

U.S. ARMY COMMUNICATIONS- ELECTRONICS RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland – Headquarters
- Fort Belvoir, Virginia
- Joint Base McGuire-Dix-Lakehurst, New Jersey

CORE COMPETENCIES

- Mission command (applications)
- Tactical and deployed power
- Tactical and strategic networks
- Tactical cyberspace operations
- Electronic warfare
- Intelligence, surveillance, reconnaissance and targeting
- Intelligence analysis, exploitation and dissemination
- Counter-IED and minefield detection
- Assured positioning, navigation and timing
- C4ISR enterprise support



The U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC) advances Soldier capabilities that enable situational awareness and understanding, establish and secure communications, and protect Soldiers from surprise attack.

INTRODUCTION

CERDEC, a subordinate of U.S. Army Research, Development and Engineering Command, is the Army's research and development center for advanced command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) capabilities. CERDEC is positioned in three locations: Aberdeen Proving Ground, Maryland; Fort Belvoir, Virginia; and Joint Base McGuire-Dix-Lakehurst, New Jersey. The center leverages its state-of-the-art facilities to develop and adapt cutting-edge C4ISR capabilities that will connect, inform and protect the Soldier.

The Army relies on CERDEC's diverse technical expertise and operational understanding to foresee, develop, adapt and engineer integrated solutions – regardless of platform – that will ensure decisive overmatch capabilities for the joint warfighter.

Whether Soldier-borne or on vehicle or aviation platforms, the Army relies on CERDEC's technical expertise to develop and/or seek out capability advancements to address Soldier needs.

The U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC) uses the Radio-frequency Electro-Magnetic Compatibility and Antenna Test Laboratory to test vehicles in a wide variety of radio frequency spectrum. (U.S. Army photo Conrad Johnson)

CAPABILITIES & MISSION EXECUTION

As an Army applied research center, CERDEC provides the diverse technical expertise and operational awareness and understanding to develop, engineer and foresee essential Army needs in mission command and intelligence technologies, applications and networks designed to connect and protect the Soldier.

CERDEC works with DOD and national basic research organizations and labs to influence research investment and to adopt, adapt and mature relevant scientific breakthroughs. CERDEC maintains close ties to the U.S. Army Training and Doctrine Command's centers of excellence and operational units to stay in touch with the evolving realities of the Soldier environment, anticipate challenges, refine requirements and inform operational tactics, techniques and procedures.

More than 4,000 Department of Army civilians, military service members and contractors make up CERDEC's workforce of scientists, engineers and business support professionals.

UNIQUE R&D FACILITIES

Aircraft Survivability Equipment Integration Laboratory – This lab provides an integrated capability to characterize threats, develop countermeasures and assess system performance against realistic threats in a controlled environment.

C4ISR Systems Integration Networking Laboratory – This laboratory provides robust infrastructure that allows integration of critical laboratory and training assessment facilities across CERDEC.

Distributed Common Ground Station – This systems integration laboratory features a state-of-the-art infrastructure that bridges developers, vendors and solutions with operational users in a government-managed stand-alone environment.

Joint Satellite Communications Engineering Center – A one-of-a-kind satellite technology and communications facility where research, development, experimentation and test activities for all military departments and the DOD can be performed.

Laser Range – This unique, secure and highly instrumented facility allows users to perform research and development of eye-safe and non-eye safe lasers and demonstration of high-energy lasers.

Mine Lanes – This unique facility provides indoor mine lane facilities designed to facilitate the evolution of ground-based mine detection technologies.

Prototype IR Focal Plane Array and IR Camera Characterization Laboratory – This facility's mission is engineering design, development, fabrication, installation, integration, testing and fielding of shelter, vehicular, aircraft, watercraft and Soldier prototype C4ISR systems.

Semiconductor Material Research and Fabrication Center – Located at Fort Belvoir, Virginia, this center supports a revolutionary approach to the rapid prototyping of semiconductor materials for future infrared sensor systems.

Virtual Prototyping Laboratory – This facility places engineers, designers and customers into an immersive virtual 3-D world where they can interact with a prototype before the fabrication of actual hardware.

FIND OUT MORE

U.S. Army Communications-Electronics Research, Development and Engineering Center
Aberdeen Proving Ground, MD 21005-5001

<https://www.cerdec.army.mil/>

 /CERDEC

 @cerdec

 /USArmyCERDEC

U.S. ARMY EDGEWOOD CHEMICAL BIOLOGICAL CENTER

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland – Headquarters
- Pine Bluff Arsenal, Arkansas
- Rock Island Arsenal, Illinois
- Dugway Proving Ground, Utah

CORE COMPETENCIES

- Chemistry and Biological Sciences
- CB Agent Handling and Surety
- CBRNE Materiel Acquisition
- CBRNE Munitions and Field Operations
- Emerging Threats Science and Technology



Christopher Byers, a chemist who works in the Toxicology and Obscurants Division at Edgewood Chemical Biological Center (ECBC) in Maryland, programs a workstation that allows scientists from the Analytical Toxicology Branch to perform high-throughput analysis of blood samples for indicators of chemical warfare exposure. (U.S. Army photo by SFC Michael Zuk)

The U.S. Army Edgewood Chemical Biological Center (ECBC) integrates life cycle science, engineering and operations capabilities to counter chemical, biological, radiological, nuclear and high-yield explosive (CBRNE) threats to Soldiers, joint warfighters and the nation.

INTRODUCTION

ECBC is the premier resource for CBRNE solutions, uniting and informing the national defense community. As part of the U.S. Army Research, Development and Engineering Command, ECBC is the primary Department of Defense technical organization for non-medical chemical and biological defense. ECBC is headquartered at Aberdeen Proving Ground, Maryland, with two additional sites located at Pine Bluff Arsenal, Arkansas, and Rock Island Arsenal, Illinois.

ECBC fosters research, development, testing and application of technologies for protecting our military from chemical/biological warfare agents, while leveraging its assets to assist civilian enterprise. ECBC's contributions include chemical/biological agent detectors and warning systems, decontamination technologies, protective masks, and services in support of the nation's demilitarization and homeland defense initiatives

As a full life cycle support organization, ECBC couples basic science with engineering and field support to put new tools in theater faster. ECBC provides chemical surety and biological materiel management services and supports homeland security initiatives through training and technical assistance programs. ECBC is also dedicated to ensuring its breakthroughs and expertise are transitioned to other government agencies, private industry and allies throughout the world.

CAPABILITIES & MISSION EXECUTION

ECBC is staffed by a highly trained, multidisciplinary team of more than 1,400 scientists, engineers and specialists. ECBC is also home to more than \$1.8 billion in facilities and equipment, with more than 200 buildings and nearly 2 million square feet of laboratory, engineering and chamber space. With its talented workforce and unique infrastructure, ECBC is a national asset.

ECBC's expert-level safety, industrial hygiene, security, surety and environmental protection professionals are focused on working safely with the world's most dangerous CB materials. ECBC also conducts basic and applied research to learn more about the nature of emerging and existing threats.

UNIQUE R&D FACILITIES

ECBC works safely with chemical/biological agents in research, engineering and operations applications for DOD and the nation.

Advanced Chemistry Laboratory – This state-of-the-art lab supports detection, protection, toxicology and decontamination research by synthesizing, purifying and determining the physical and chemical properties of classical and reputed chemical weapon agents.

Berger Engineering Complex – A multifunctional life cycle acquisition complex, this facility contains offices and labs for chemical/biological research, engineering design and rapid prototyping, limited manufacturing and sustainment engineering.

Bio Engineering Laboratory – This facility conducts basic and applied bio-molecular research to support development, testing and evaluation of chemical/biological detection systems.

Chemical Surety Laboratory – These laboratories are used for research, applied detection technology testing, and permeation and analytical solutions testing on chemical/biological defense equipment.

Chemical Transfer Facility – This facility allows agent preparation through synthesis or purification packaging and shipment of neat and dilute agent throughout DOD.

Detection Technology Evaluation Facility – The laboratory allows precise performance measurement of point and standoff detection systems.

Forensics Analytical Center – The center supports military, chemical treaty and law enforcement missions.

McNamara Life Science Research Facility – This facility contains a wide variety of inhalation chambers to test toxicants.

Emerging Threats Defense Test System – This unique asset supports bench-scale to chamber, component and systems testing involving emerging chemical threats.

Toxic Test Chambers – These chambers allow for large-scale testing including explosives dissemination of chemical warfare agents.

"M" Field Research and Development Test Range – This range, a 400-acre plot of land, this range is used to support CBNRE acquisition life cycle replicating real-world conditions in an environmentally safe manner.

Sample Receipt Facility – This facility combines multi-agency expertise to receive, assess and examine unknown items for potentially hazardous chemical and biological agents.

FIND OUT MORE

Edgewood Chemical Biological Center
5183 Blackhawk Road
APG, MD 21010-5424

<https://www.ecbc.army.mil>

 /EdgewoodChemBioCenter

 @edgewoodchembio

 /EdgewoodChemBio

U.S. ARMY NATICK SOLDIER RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

LOCATION

- Natick, Massachusetts

CORE COMPETENCIES

- Advanced/Multifunctional Materials
- Biomechanics
- Cognitive & Behavioral Sciences
- Food Science
- Geographic/Precision Guided Systems
- Human Anthropology
- Nutrition
- Sustainable Living
- Soldier/Small Unit Operations
- Systems Engineering
- Textiles
- Wearable Power



The Natick Soldier Research, Development and Engineering Center (NSRDEC), provides the Army with Innovative science and technology (S&T) solutions to optimize Soldier/team performance and improve combat readiness.

INTRODUCTION

NSRDEC is located at the U.S. Army Natick Soldier Systems Center in Natick, Massachusetts. Known locally as ‘Natick Labs’, NSRDEC is the lead organization for the Army’s Soldier Domain Technology programs. The center’s 400-plus scientists, engineers, technologists and equipment designers provide capabilities and equipment to increase Soldier readiness, including field feeding and life support systems, clothing and personal protective equipment, precision airdrop systems and ballistic, chemical and laser protection systems.

CAPABILITIES & MISSION EXECUTION

To continue providing “the science behind the Soldier”, NSRDEC’s Portfolios and Focus Areas concentrate on and include Soldier/Squad Science and Technology Strategy, Force Projection and Sustainment, Human Systems Integration & Performance Optimization, Individual Multi-Threat Protection, and Soldier Systems Engineering Architecture.

Natick’s research, development and engineering of novel materials and fibers has led to the creation of new combat uniforms and Soldier equipment that are lighter, more durable and more threat-resistant than anything Soldiers have ever worn. Innovative research into food science and packaging has led to a new understanding of how to maximize a Soldier’s performance with rations containing the right mix of nutrients, are easy to prepare in remote locations, and most importantly, taste good. Research into airdrop and other aerial delivery technologies has matured to ensure that personnel and equipment reach their destination in the fastest, most precise, yet safest, way possible.

NSRDEC’s research and development focus is concentrated on seven core domains, providing what the Soldier needs to ensure readiness in unique combat environments .

Retired military paratroopers were suspended from the ceiling of the Natick Soldier Research, Development and Engineering Center’s Doriot Climatic Chambers as engineers tested oxygen and navigation systems as the wind chill hovered near 50 degrees below zero. (U.S. Army photo)

Basic & Early Applied Research is the earliest level of research performed before any new product is developed. This includes anything from a simple idea to a prototype of a new system or product and is the first step in technology generation.

Airdrop/Aerial Delivery is the study of how Soldiers and supplies are delivered to the battlefield by air. Almost everything a Soldier requires in the field can be delivered via airdrop. This includes food, water, ammunition, shelters, and vehicles.

Clothing & Protective Equipment is the development of uniforms and gear that equip and protect Soldiers for their missions. When studying combat clothing needs, NSRDEC considers every combat situation a Soldier might encounter.

DoD Combat Feeding includes the research and development of operational rations, field feeding equipment, and the field feeding systems used to prepare and serve the food that the warfighter eats.

Expeditionary Maneuver Support is the research and development of combat shelter systems and components that allow a Soldier to maintain physical readiness while deployed.

Human Systems Integration Sciences is tailored to the Soldier to determine which products facilitate or hinder their performance in the field.

UNIQUE R&D FACILITIES

NSRDEC, a subordinate of U.S. Army Research, Development and Engineering Command, has capabilities and competencies that provide a research framework to increase Soldier readiness and support the Soldier domain.

Doriot Climatic Chambers – These are dual chambers with the ability to reproduce environmental conditions occurring anywhere in the world, including temperature simulations, humidity, wind, rainfall and solar radiation.

High Performance Fiber Facility – This facility combines NSRDEC, academia and industry expertise in novel fiber/textile technology research to invent and rapidly transition new optical, electronic, high strength, flame retardant and reactive materials to warfighters and first responders.

3D Laser Scanning Lab – Whole body and head/face laser scanning system that enables measurements for current and next generation armor and helmet systems.

NSRDEC Prototype Integration Facility – This facility specializes in fabric and other prototyping and design to include clothing and related equipment such as parachutes, aerial delivery equipment, tents and covers,

and has a 3D printing/additive manufacturing capability to produce prototypes.

Cognitive Performance Lab – This lab provides Virtual Reality and Mobile Cognitive Assessment Platform capabilities

Polymer Film Center of Excellence – Enables R&D of new plastics and nanocomposites formulations at lab scale production level

Ouellette Thermal Test Facility – This joint Army/Navy state-of-the-art facility is designed to evaluate and characterize the effects of flame and thermal threats on materials, ranging in size from research quantities (milligrams) to full-scale systems.

The Center for Military Biomechanics Research – A joint facility shared by NSRDEC and U.S. Army Research Institute of Environmental Medicine, this center includes dedicated laboratory space outfitted with state-of-the-art equipment for 3-D analysis of different forces on the human body, including measurement of external forces on the body, monitoring of muscle activity, assessment of O2 consumption, and real-time mapping of pressure patterns.

The Center for Applied Brain and Cognitive Sciences – An NSRDEC and Tufts University cooperative laboratory, the center provides researchers an innovative, state-of-the-art environment to conduct multidisciplinary research on measuring, predicting and enhancing cognitive capabilities and human-system interactions in naturalistic environments.

Whittlesey Building – A multifunctional textiles and fabric testing and evaluation facility with an assortment of specialized equipment to characterize and examine various materials. It has the capability to conduct over 120 different industry standard tests.

Base Camp Integration Lab – Shared with PM Force Sustainment Systems and located at Fort Devens, the lab has two 150-man Force Provider Expeditionary Base Camps set up to test and improve current component systems and develop new technologies for water, power and energy reduction.

FIND OUT MORE

NSRDEC

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Natick, MA 01760-5012

<http://nsrdec.natick.army.mil>

 /NSRDEC/

 @NatickSRDEC

U.S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

LOCATION

- Warren (Detroit Arsenal), Michigan

CORE COMPETENCIES

- Ground vehicle power and mobility
- Ground system survivability
- Ground vehicle robotics
- Force projection technology
- Vehicle electronics and architecture
- Energy security

A truck equipped with the Autonomous Mobility Appliqué System senses the disabled vehicle blocking the road, and drives around it. (U.S. Army photo)



The U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) develops, integrates and sustains technology solutions for all manned and unmanned DOD ground systems and combat support systems to improve current force effectiveness, provide superior capabilities for the future force, and ensure decisive overmatch capabilities for unified land operations to empower Soldiers and the joint warfighter.

INTRODUCTION

TARDEC's programs advance the state-of-the-art in power and energy, advanced collaborative environments, robotics, active protection systems, advanced armor, electric drive and embedded simulation to provide the Army with the materiel solutions it demands.

TARDEC, a subordinate of the U.S. Army Research, Development and Engineering Command, leads several Army Future Force Science and Technology efforts to collaborate with Army combat developers and to ensure robust equipment is fielded that meets aggressive cost, schedule and performance standards.

Making sure that warfighters receive optimized equipment quickly at reduced taxpayer cost, TARDEC is at the forefront of technology transfer, building solid relationships with industry and academia to develop dual-use technologies. The center is uniquely positioned to ensure the Army remains a strategically dominant force across the operation spectrum.

CAPABILITIES & MISSION EXECUTION

TARDEC's laboratory, research and engineering operations encompass 28 facilities at the Detroit Arsenal, Selfridge Air National Guard Base, and Southwest Research Institute. TARDEC engineers manage more than 1 million square feet of laboratory and engineering space and more than \$1 billion in facility and equipment value, providing enormous returns on investment to the U.S. Army ground vehicle community. In addition, TARDEC's National Automotive Center works closely with industry and academia, leveraging commercial automotive technologies and current research advancements for military use to improve ground systems mobility, lethality and Soldier survivability.

The TARDEC workforce provides engineering and scientific expertise for the DOD manned and autonomy-enabled ground systems and ground support systems. TARDEC serves as the nation's laboratory for advanced military automotive technology and provides leadership for the Army's advanced S&T research, demonstration, development and full life cycle engineering efforts.

As a Tank-automotive and Armaments Command partner, TARDEC is also responsible for critical technology functions within the acquisition, logistics and technology life cycle model, including: technology maturation and integration; technology subject matter expertise; systems level engineering analysis; and systems engineering.

TARDEC provides engineering support for more than 2,800 Army systems and many of the Army's and DOD's top joint development programs. The organization is responsible for maximizing the research, development, transition and sustainment of technologies and integration across all ground systems.

UNIQUE R&D FACILITIES

TARDEC, a subordinate of U.S. Army Research, Development and Engineering Command, is responsible for maximizing the research, development, transition and sustainment of technologies and integration across all ground systems. To maintain operational focus and relevance, TARDEC develops and sustains a number of critical core competencies and capabilities.

Bridging Technology Laboratory – TARDEC engineers are assigned as National Official Authorities for the U.S. Army for rating portable bridges, ferries, rafts and vehicles against NATO standards.

Center for System Integration and Prototype Integration Facility – These facilities support a variety of TARDEC core competencies through systems integration.

Ground Systems Power and Energy Laboratory – This 32,000-square-foot facility contains laboratories designed to support the research and development of next generation power, energy and mobility systems, subsystems and components.

Mobility Test Facility – This facility has 11 test cells that conduct engine testing (both diesel and turbine), transmission testing, drive system components, propulsion systems, power pack and vehicle testing to evaluate performance, endurance and reliability of these components for standard tests prior to fielding.

Petroleum, Oil & Lubricants, Fuels Laboratories and Freshwater Treatment & Test Facility – These labs test a variety of systems and support research in multiple technology areas.

Shock, Vibration, Suspension and Elastomer Facility – TARDEC's Shock Test Machine can be used to evaluate structural durability and reliability of vehicle components and subsystems at high frequencies.

Survivability Facility – The electrified armor laboratory develops technologies and methods to advance pulse power-based armor components, subsystem and systems.

TARDEC High Performance Computing and Data Management Facilities – These facilities allow TARDEC scientists and engineers from each of the core competencies to perform their S&T tasks more effectively, and with greater efficiency, by providing S&T tools, networks and computing power that support analytical modeling and simulation models, prototype development and more.

Vehicle Electronics and Architecture Research System Integration Laboratory – This research laboratory allows TARDEC engineers to develop and demonstrate vehicle electronics and architecture to address power, vetronics and C4ISR integration challenges facing the ground vehicle domain.

FIND OUT MORE

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Warren, MI 48092

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 @tardec_pao

 /RDECOMTARDEC

RDECOM FORWARD ELEMENT COMMANDS

PRIMARY LOCATIONS

- RFEC-Americas headquartered in Santiago, Chile
- RFEC-Atlantic headquartered in London
- RFEC-Pacific headquartered in Tokyo

Nigerien army Lt. Aboubacar Issaka A. Wahab, left, and U.S. Army Maj. Eddie Strimel, a Field Assistance in Science and Technology advisor assigned to U.S. Army Africa, use the SQ.410 Translation System during testing in Niamey, Niger. (U.S. Army photo)



The RDECOM Forward Element Commands (RFECs) have two missions: search for state-of-the-art science and technology for Soldiers and develop theater security cooperation.

INTRODUCTION

The RFECs, following guidance from the Department of Army and Combatant Commands, ensure international cross-command cooperation in building relationships and the capabilities of U.S. allies. The RFECs also initiate partnerships with industry, foreign military laboratories and academia.

Primary RFEC operations are the International Technology Centers (ITCs) and the Field Assistance in Science and Technology (FAST) advisors operating in the RFECs' geographical area of responsibility.

RFECs integrate and synchronize military technology to regional activities of the ITCs and FAST advisors in building relationships to advance science, engineering and technical capabilities in areas relevant to U.S. Army Research, Development and Engineering Command and the overall U.S. Army mission.

CAPABILITIES & MISSION EXECUTION

ITCs promote cooperation between RDECOM and international researchers to advance science, engineering and technical capabilities in areas relevant to the overall U.S. Army mission. The ITCs' goal is to identify emerging technology by supporting cooperative development initiatives and identifying innovative foreign technology solutions.



U.S. Soldiers, assigned to the 1st Armored Brigade Combat Team, 3rd Infantry Division, provide information to the ground units from the tactical operations center while a Latvian soldier, right, observes during Exercise Combined Resolve IV at the U.S. Army's Joint Multinational Readiness Center in Hohenfels, Germany. Representatives from RDECOM's Forward Element Commands were on hand to observe training to assess the technology used by different units and countries involved in the exercise. (U.S. Army photo by Pfc. Courtney Hubbard)

ITCs are engaged in:

- Supporting technology discovery/transfer;
- Discovering foreign alternatives;
- Assisting with armaments cooperation issues;
- Assisting in technology assessments; and
- Responding to requests for information on foreign technologies, companies and academic institutions.

RFEC-Americas, founded in 2004, is the newest and smallest of the three organizations with ITCs positioned in Canada and Argentina. This organization includes 22 member armies and other observers and has a goal of improving interoperability in peacekeeping, disaster relief and humanitarian operations.

RFEC-Atlantic spans Europe, Africa and Western Asia with ITC locations in the United Kingdom, France and Germany. In addition, the organization supports two Combatant Commands – U.S. European Command and U.S. Africa Command – and maintains relationships in a science and technology (S&T) community spread across more than 100 nations.

RFEC-Pacific facilitates S&T collaboration throughout a region spanning 36 countries, including Japan, South Korea, Australia and Singapore. RFEC-Pacific works with the broader Department of Defense S&T community, including the Office of Naval Research Global, the Asian Office of Aerospace Research and Development, the Defense Advanced Research Projects Agency, and the Defense Threat Reduction Agency.

FIND OUT MORE

RDECOM-Americas –

<https://www.army.mil/article/157970/>

RDECOM-Atlantic –

<https://www.army.mil/article/157971/>

RDECOM-Pacific –

<https://www.army.mil/article/157973/>



MILITARY SURFACE DEPLOYMENT AND DISTRIBUTION COMMAND

The Military Surface Deployment and Distribution Command (SDDC), headquartered at Scott Air Force Base (AFB), Illinois, provides global deployment and distribution capabilities to deliver national objectives.

PRIMARY LOCATIONS

- Scott Air Force Base, Illinois – Headquarters
- Birmingham, Alabama
- Sunny Point, North Carolina
- Concord, California

CORE COMPETENCIES

- Books, ships, tracks and conducts port operations for surface movements worldwide by leveraging services from the U.S. transportation industry
- Delivers household goods and privately owned vehicles in support of service members, federal employees and their families
- Provides the Department of Defense with engineering, policy guidance, research and analytical expertise through its Transportation Engineering Agency

INTRODUCTION

SDDC, headquartered at Scott Air Force Base, Illinois, is a major subordinate command of U.S. Army Materiel Command and the Army Service Component Command to U.S. Transportation Command. With nine brigades geographically located throughout the world to support Combatant Commanders, SDDC is globally postured to provide agility for the joint warfighter.

SDDC is the premier total force surface deployment and distribution synchronizer, a key member of our nation's Joint Deployment and Distribution Enterprise and is always ready with capabilities available to project and sustain our nation's combat power, even in the most austere conditions. With a workforce of approximately 2,400 trusted professionals, SDDC delivers readiness to the warfighter. SDDC books, ships, tracks and conducts port operations for surface movements worldwide by leveraging services from the best of the U.S. transportation industry. SDDC also supports service members, federal employees and their families with safe and secure delivery of their household goods and privately owned vehicles. The command manages an average of about 500,000 booked household moves a year with about 220,000 of those moves occurring during the peak move season between the months of May and August.

ABOVE: The Military Surface Deployment and Distribution Command (SDDC) uses a common computing environment to help them book, ship, track and bill transportation more efficiently. Services are delivered worldwide and include activities such as the loading of unit equipment headed overseas and the offloading of cargo returning from Afghanistan at the Port of Beaumont and at Port of Port Arthur, Texas. (U.S. Army photo by Sarah Garner)

Additionally, SDDC's Transportation Engineering Agency, also at Scott Air Force Base, provides the Department of Defense with engineering, policy guidance, research and analytical expertise, ensuring U.S. military forces can respond successfully to any requirement anywhere in the world.

The U.S. Army Reserve Deployment Support Command (DSC) provides SDDC with a total force capability. Operationally controlled by SDDC and headquartered in Birmingham, Alabama, the DSC provides four transportation brigades and an Expeditionary Rail Center to support SDDC operations. The DSC is a direct-reporting command of the 377th Theater Support Command.

CAPABILITIES & MISSION EXECUTION

SDDC has five subordinate active-duty brigades headquartered around the world.

The 595th Transportation Brigade, Camp Arifjan, Kuwait, conducts surface deployment and distribution operations to meet national security objectives within the U.S. Central Command (CENTCOM) area of responsibility. Through a cohesive team of experts, the 595th Transportation Brigade links strategic warfighter surface-movement requirements with commercial capability. Combining organic, commercial and host-nation capabilities, the brigade offers maximum options and solutions to supported forces while delivering equipment and sustainment on time. The brigade has two battalions:

- 831st Transportation Battalion, Manama, Bahrain with detachments in Bagram and Bahrain; and
- 840th Transportation Battalion, Port of Ash Shuaiba, Kuwait, with detachments in Qatar, Kuwait and UAE.

The 596th Transportation Brigade, Military Ocean Terminal Sunny Point (MOTSU), North Carolina, safely provides ammunition terminal services to meet the nation's objectives. This responsibility includes the operation of both East and West Coast ammo terminals at MOTSU and at Military Ocean Terminal Concord (MOTCO), California, respectively, and the western half of the U.S. Northern Command area of responsibility. The brigade has two battalions:

- 833rd Transportation Battalion, Joint Base Lewis McChord, Washington; and
- 834th Transportation Battalion, Concord, California.

The 597th Transportation Brigade, Joint Base Langley-Eustis, Virginia, is focused on the eastern half of the U.S. Northern Command and U.S. Southern Command areas of responsibility. The 597th and its subordinate units are responsible for meeting the surface deployment, re-deployment and distribution needs of the warfighter and Defense Transportation System customers in the United States. The brigade has three battalions and three rapid port-opening elements:

- 832nd Transportation Battalion, Joint Base Langley-Eustis, Virginia
- 841st Transportation Battalion, Charleston, South Carolina
- 842nd Transportation Battalion, Beaumont, Texas
- 688th Rapid Port Opening Element, Joint Base Langley-Eustis, Virginia
- 689th Rapid Port Opening Element, Joint Base Langley-Eustis, Virginia
- 690th Rapid Port Opening Element, Joint Base Langley-Eustis, Virginia

The 598th Transportation Brigade, Sembach, Germany, supports U.S. European Command (EUCOM), U.S. Africa Command (AFRICOM), and CENTCOM via the Northern Distribution Network. The 598th Transportation Brigade enables full-spectrum operations by performing movement of forces and materiel in support of the Combatant Commander. This unit has left its mark in dozens of countries, distinguishing itself in every mission, aptly fulfilling its motto, "Warrior Logistics – in Motion." The brigade provides expeditionary and deliberate port (seaport of embarkation and seaport of debarkation) and surface distribution operations in EUCOM and AFRICOM, and sustains forces. Additionally, the unit is prepared to deploy globally on short notice to conduct port and distribution operations. The brigade has two battalions:

- 838th Transportation Battalion, Kaiserslautern, Germany, with detachments in Rhine River, U.K., Greece and Rotterdam
- 839th Transportation Battalion, Livorno, Italy, with detachments in Greece, Italy and Turkey
- 950th Transportation Company, Bremerhaven, Germany

MILITARY SURFACE DEPLOYMENT AND DISTRIBUTION COMMAND *Continued*



ABOVE: Loaded Stryker vehicles from the 2nd Stryker Brigade Combat Team base at Schofield Barracks, Hawaii, await the 2,700 mile journey to the Port of Seattle. Military Surface Deployment and Distribution Command coordinated the redistribution of 320 Stryker vehicles from Hawaii to Washington. (U.S. Army photo)

The 599th Transportation Brigade, Wheeler Army Airfield, Hawaii, is located with all U.S. Pacific Command service component commands on the island, making the location ideal for brigade members to effectively plan and coordinate with leading supported units. The unit's location also allows easy access to Honolulu's commercial ports, Barbers Point Harbor, and to the Navy port at Pearl Harbor. The area of responsibility for the 599th is geographically the largest in the world, covering 52 percent of the Earth's surface, equal to about 105 million square miles. The brigade has three battalions and one Naval Reserve Unit:

- 835th Transportation Battalion, Okinawa, Japan, with a detachment in Singapore
- 836th Transportation Battalion, Yokohama, Japan, with detachments in Guam and Kure, Japan
- 837th Transportation Battalion, Busan, Korea
- Naval Reserve SDDC-Pacific, Alameda, California

FIND OUT MORE

Military Surface Deployment and Distribution Command
1 Soldier Way
Scott AFB, IL 62225-5006

www.sddc.army.mil

[f /HQSDDC/](https://www.facebook.com/HQSDDC/)

[t @SDDCvideos](https://twitter.com/SDDCvideos)

MILITARY OCEAN TERMINAL CONCORD

LOCATION

- Concord, California

Bomb carts, also known as “yard dogs,” line up to accept containers as they are discharged from the vessel during a recent repositioning mission at Military Surface Deployment and Distribution Command’s Military Ocean Terminal Concord, California. (U.S. Army photo by Mark Diamond)



Military Ocean Terminal Concord (MOTCO) is Military Surface Deployment and Distribution Command’s West Coast strategic ammunition port, and is DOD’s primary ammunition seaport supporting the U.S. Pacific Command area of responsibility.

INTRODUCTION

The Army’s presence at MOTCO dates back to 1997 when the Army’s 1302nd Major Port Command was relocated from Oakland Army Base, California, to MOTCO and became the 834th Transportation Battalion. MOTCO properties were transferred from the Navy to the Army in 2008 per the 2005 Base Realignment and Closure Commission recommendations.

The 834th Transportation Battalion is the single port manager/operator at MOTCO and operates the three piers and an Army-owned rail system that connects with two major public railway lines.

MOTCO receives ammunition by rail and highway; stages containers, railcars and trailers; and loads vessels with containers and break-bulk (loose items) ammunition. Rail lines, piers, holding pads, transfer facilities, staging areas, railcar class yards, barricaded railcar holding areas and Main Supply Routes are all operated in support of cargo receipt and movement.

CAPABILITIES & MISSION EXECUTION

MOTCO encompasses approximately 115 acres inland, 6,500 acres of tidal area which includes terminal piers, staging and transfer facilities, and 2,000 acres of offshore islands. While ammunition is the focus of most cargo movement into or out of MOTCO, the installation is capable of handling general cargo providing it is in conjunction with, or does not interfere with, ammunition transshipment. No single facility, or combination of facilities, on the West Coast can meet the ammunition throughput capacity or net explosive weight limits that MOTCO provides.

FIND OUT MORE

Military Ocean Terminal Concord
5110 Port Chicago Hwy
Concord, CA 94520

MILITARY OCEAN TERMINAL SUNNY POINT

LOCATION

- Southport, North Carolina

Military Ocean Terminal Sunny Point completed construction on two new ship-to-shore cranes in 2012, as the focal point of the Center Wharf expansion project. The port's South Wharf still boasts two smaller first generation cranes. (U.S. Army photo by Kim Hanson)



Military Ocean Terminal Sunny Point (MOTSU) is Military Surface Deployment and Distribution Command's East Coast strategic ammunition port, and is DOD's primary ammunition seaport supporting the European, African and Middle Eastern areas of operation.

INTRODUCTION

Activated in 1955, MOTSU is located on the west bank of the Cape Fear River in Brunswick County, North Carolina. Encompassing more than 16,000 acres, MOTSU is home to the 596th Transportation Brigade. The port has transferred munitions to every major armed conflict since it was established.

As the key ammunition shipping point on the Atlantic coast for U.S. forces worldwide, MOTSU stores and ships DOD ammunition, dangerous cargo and explosives, including small arms ammunition; artillery shells, fuses and propellants; ammunition for vehicle systems; and aircraft bombs and ammunition.

MOTSU is the only facility in the DOD network that is equipped for and authorized to handle containerized ammunition.

CAPABILITIES & MISSION EXECUTION

MOTSU is the largest ammunition port in the nation and DOD's primary east coast deep-water port and ammunition shipping point. It also acts as an alternate for supporting U.S. Army Pacific requirements.

With a workforce of approximately 350 civilians, contractors and military personnel, the installation includes three wharves and incorporates a network of railroad tracks covering 62 miles to move munitions across the area. This infrastructure allows the seamless transfer of munitions between rail, trucks and ships.

MOTSU enables the U.S. Army to meet its wartime ammunition throughput requirements.

FIND OUT MORE

Military Ocean Terminal Sunny Point
6280 Sunny Point Road
Southport, North Carolina 28461



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DEPLOYMENT & DISTRIBUTION



U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENTS COMMAND

The U.S. Army Tank-automotive and Armaments Command (TACOM), a major subordinate command of U.S. Army Materiel Command, unites all of the organizations that focus on Soldier and ground systems throughout the life cycle.

PRIMARY LOCATIONS

- Warren, Michigan – Headquarters
- Watervliet Arsenal, New York
- Anniston Army Depot, Alabama
- Red River Army Depot, Texas
- Sierra Army Depot, California
- Joint Manufacturing and Technology Center, Illinois
- Joint Systems Manufacturing Center, Ohio

INTRODUCTION

TACOM, headquartered at Detroit Arsenal in Michigan, develops, acquires, fields and sustains Soldier and ground systems for America’s warfighters. If a Soldier eats it, wears it, drives it, or shoots it, TACOM develops, provides or sustains it.

TACOM works across various organizations, including the Integrated Logistics Support Center, Program Executive Office (PEO) Combat Support and Combat Service Support, PEO Ground Combat Systems, and PEO Soldier, to integrate Soldier and ground system life cycle management. The command has operational control of U.S. Army Tank Automotive Research, Development and Engineering Center and Army Contracting Command-Warren, and works closely with U.S. Army Armament Research, Development and Engineering Center; Natick Soldier Research, Development and Engineering Center; Edgewood Chemical Biological Center; Joint Program Executive Office for Chemical and Biological Defense; and the System of Systems Integration and Engineering Directorate.

CAPABILITIES & MISSION EXECUTION

More than 19,000 teammates at approximately 109 locations around the world work together to get products and services to the Soldier faster, make good products even better and minimize life cycle costs.

ABOVE: Soldiers serving with 77th Field Artillery Regiment, 4th Infantry Brigade Combat Team, 4th Infantry Division, shoot a round down range from an M77A2 howitzer at Kandahar Airfield, Afghanistan. (U.S. Army photo)



A Red River Army Depot team member conducts welding work inside the hull a Mine Resistant Ambush Protected Vehicle. The depot is capable to rebuild and repair each variant of the MRAP.

TACOM plays a vital role in the Army's efforts to sustain, prepare, reset and transform its operations. The command manages its products, people, processes and culture in order to deliver warfighting capabilities and to enhance Soldier readiness.

Successful execution of its mission requires effective communication and coordination among the acquisition, logistics and technology organizations that are part of TACOM and the Army's materiel enterprise.

As part of the AMC Organic Industrial Base enterprise, TACOM is responsible for six depots, arsenals and manufacturing centers, including the the Joint Systems Manufacturing Center-Lima, Watervliet Arsenal, Anniston Army Depot, Red River Army Depot, Sierra Army Depot and the Rock Island Joint Manufacturing and Technology Center.

These locations manufacture and remanufacture major end items and components that support the U.S. military. Some components are critical repair parts that support TACOM's supply chain, including engines, alternators and axles.

FIND OUT MORE

U.S. Army Tank-automotive and Armaments Command
6501 E. 11 Mile Road
Warren, MI 48397-5000

www.tacom.army.mil

 [/TACOMLCMC](https://www.facebook.com/TACOMLCMC)

 [@usarmytacomlcmc](https://twitter.com/usarmytacomlcmc)

ANNISTON ARMY DEPOT

LOCATION

- Anniston, Alabama

An industrial equipment operator uses a crane to hoist the hull of a M1 Abrams tank into a spinner hanger at Anniston Army Depot. The U.S. Army's ammunition plants, depots and arsenals provide the capability to surge in support of global contingencies today and into the future. (U.S. Army photo)



Anniston Army Depot (ANAD) is the premier Department of Defense Center for Industrial and Technical Excellence (CITE) for combat vehicles (wheeled and track except Bradleys), and is capable of overhaul and refurbishment of combat vehicles, artillery systems, bridge systems, small arms, secondary components, locomotives, rail equipment and non-tactical generators.

INTRODUCTION

ANAD provides industrial and technical support to joint services for repair and overhaul of combat vehicles, artillery systems, bridge systems, small arms, secondary components, locomotives, rail equipment, and non-tactical generators. With a \$990 million economic impact, the depot is a major economic engine for the region.

Anniston Army Depot's commitment to providing the best possible support to the warfighter extends well beyond its base location in Anniston, Alabama. The organization's support and services are extended on-site to military units and other locations throughout the United States and beyond.

The depot provides on-site support through various types of field missions as a subordinate to U.S. Army Tank-automotive and Armaments Command. Small Arms Readiness Evaluation Teams travel to unit sites to inspect and repair small caliber weapons for pre/post deployments, bringing the weapons to fully mission capable status. Fielding and Rapid Repair Support Teams perform vehicle repair and handoff for M1, M88 and Paladin vehicles. Forward Repair Activity teams

perform a range of services including, engine, transmission and generator repair; welding and fabrication; and other functions to maintain operational equipment. Anniston's rail mission – Defense Non-tactical Generator and Rail Equipment Center – inspects, repairs and rebuilds locomotives for the Army and other customers. In three different overseas locations, self-contained machine shops, Mobile Parts Hospitals have been set up with the capability to build any small parts a warfighter needs. To support ANAD's M1 customers, Total Integrated Engine Revitalization Field Support Representatives, or TIGER FSRs, travel to various locations to perform AGT1500 turbine engine repair on site.

Located on more than 15,000 acres, ANAD has a building and plant replacement value of approximately \$2.5 billion. To the north, the installation is bordered by Pelham Range, a 20,000-acre training range operated by the Alabama National Guard.

CAPABILITIES & MISSION EXECUTION

The most valuable resource existing at ANAD is the multi-skilled workforce that would take decades to replace. The infrastructure is capable of repeated 75-ton combat vehicle traffic and has heavy-lift capability within key facilities. ANAD has a live firing range capable of firing weapons up to 155 mm.

Capabilities include:

- Custom machining
- Combat vehicles (except Bradley)
- Overhaul/repair of all wheeled and tracked vehicles
- Artillery overhaul/repair
- Small arms overhaul/repair
- Bridging systems overhaul/repair
- Overhaul/repair of locomotives, rail equipment, and non-tactical generators
- Worldwide support

Constructed in 1941 as the Anniston Ordnance Depot, ANAD's mission has evolved over the decades, growing from a storage site, to storage and maintenance, to repair and overhaul operations starting in the 1980s.

INDUSTRIAL SKILLS AND FACILITIES

Although Anniston Army Depot is a multi-mission installation, it is most frequently recognized for its heavy combat vehicle expertise. From the M48 tank of the 1950s, to the M1 series battle tank of today, the depot has rightfully earned its reputation as the "tank rebuild center of the world."

Computer Aided Manufacturing – On the leading edge of technology, Anniston has two high-tech manufacturing capabilities in Flexible Computer Integrated Manufacturing and Rapid Acquisition of Manufactured Parts.

Manufacturing/Fabrication Facilities – Anniston has more than 100,000 square-feet of manufacturing/fabrication capacity featuring highly skilled craftsmen with the latest state-of-the-art tools and equipment.

Nichols Industrial Complex – This 1.5 million-square-foot facility has the capacity and capability to completely overhaul any combat vehicle.

Powertrain Flexible Maintenance Facility – Built with flexibility in mind, this 142,500-square-foot-facility provides prime engine production space, bringing together a variety of processes that were previously performed at different locations under one roof.

Small Arms Repair Facility – Anniston's staff and facilities offer the expertise for small component repair to complete weapon disassembly, repair, modification, conversion, reclamation, refinishing, reassembly, functional testing and target accuracy testing.

Towed Howitzer Overhaul Facility – Anniston has the capability to overhaul and rebuild a variety of towed howitzer weapon systems.

Turbine Engine Facility – Employees inspect, repair, reclaim and overhaul complete turbine engines as well as their associated components in this 110,000-square-foot facility.

Upholstery Shop – Anniston's unique fabrication competencies offer a range of capabilities covering chemical, biological and radiological needs, to hydraulic hose fabrication.

FIND OUT MORE

Anniston Army Depot
7 Frankford Ave. – Bldg. 363
Eastaboga, AL 36260

www.anad.army.mil

 /AnnistonArmyDepot

 /Anniston Army Depot

ROCK ISLAND ARSENAL JOINT MANUFACTURING AND TECHNOLOGY CENTER

LOCATION

- Rock Island Arsenal, Illinois

Sgt. Maj. Marvin Jones, RIA-JMTC sergeant major (left), and Col. Kenneth W. Letcher, RIA-JMTC commander stand by the first stencil after spraying at Rock Island Arsenal Joint Manufacturing and Technology Center. (U.S. Army photo by Kimberly Conrad)



The Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JMTC) provides on time, cost effective products and services of the highest quality through the use of a highly skilled workforce and cutting-edge technology in order to ensure joint warfighter readiness any time and any place.

INTRODUCTION

RIA-JMTC is designated as a Center of Industrial and Technical Excellence (CITE) for Mobile Maintenance Systems, add-on armor and foundry operations. Located in the facilities of RIA-JMTC are various blends of manufacturing techniques such as traditional blacksmithing services combined with the most innovative and advanced technologies, processes and equipment in the manufacturing sector today.

RIA-JMTC, a subordinate of U.S. Army Tank-automotive and Armaments Command, functions as a shop with facilities possessing the technical expertise and equipment to provide full-service production engineering; prototype fabrication; complex, tight tolerance component part manufacturing; and weapons live-fire testing and simulation. This full range of capabilities allows for a rapid response to warfighter requirements emanating from all of the joint services.

RIA-JMTC's business model to support any weapon system allows the manufacture of parts from raw material to finished product within a single facility. The center maintains a ready and responsive Organic Industrial Base that is capable of performing various and diversified processes at a single location.

Located on a 946-acre island in the Mississippi River between Illinois and Iowa, RIA has more than 1.5 million square feet of manufacturing space and one of the largest warehouse facilities with more than 770,000 square feet under one roof, with additional storage space available outside.

CAPABILITIES & MISSION EXECUTION

RIA-JMTC is a full service, one-stop shop that saves customers' time and money by eliminating the need to outsource services. The capabilities range from having a full-purpose foundry, to fabrication and welding of various metals, to heat treating, machining, painting and engineering. RIA-JMTC has unique capabilities in the industrial world with more than 1,000 machining centers.

Established in 1862, Rock Island Arsenal served as a prison camp for Confederate Soldiers during the Civil War. Acting as a stone manufacturing shop from 1866 to 1893, RIA eventually was the site of the first American manufactured tank after World War I. That innovative thinking has continued over the decades, as RIA-JMTC strives to produce the best quality weapons and manufactured items for the Department of Defense while meeting the changing needs of today's warfighter.

Capabilities at a Glance:

- Engineering and laboratory facilities
- Tool/die manufacturing
- Casting and investment casting
- Gear/spring manufacturing
- Water jet cutting
- Laser cutting
- Stereo lithography (3-D modeling)
- Assembly and packaging
- Live-fire testing and simulation
- Titanium casting
- Composite armor center
- Robotic welding
- Machining
- Forging
- Blasting
- Welding
- Forming
- Plating
- Painting

INDUSTRIAL SKILLS & FACILITIES

RIA-JMTC is integral in providing DOD with quality equipment for the warfighter. Its capabilities allow the arsenal to work on a variety of projects simultaneously while completing orders on time.

Assembly – RIA-JMTC's assembly capabilities allow for painting, assembly, disassembly and reset, and recoil.

Hot Metals – RIA-JMTC's forging capability is complete with advanced technology for complex forging and "old world" methods for simple forging and blacksmithing.

Precision Machining – The Arsenal's machining capabilities are unmatched, with 3-axis to 7-axis machining centers, Swiss lathes, and more than 1,000 computer numerical control machines.

Welding and Fabrication Facilities – These facilities include technology spanning from lasers and a robotic welder to water jets and plasma cutters.

Science and Engineering – RIA-JMTC employs the latest technologies when acquiring new equipment and performing advanced testing, prototyping and use of quality control systems.

FIND OUT MORE

Rock Island Arsenal - Joint Manufacturing and Technology Center
1 Rock Island Arsenal Building 60
Rock Island Township, IL 61299

<https://ria-jmtc.ria.army.mil/>

 /RIAJMTC

 @RIA_JMTC

 /RIAJMTC

RED RIVER ARMY DEPOT

LOCATION

- Texarkana, Texas

CORE COMPETENCIES

- Electronics mechanical/hydraulics engine transmissions
- Metal fabrication and machining
- Rubber road wheels and track shoes
- Combat and tactical vehicle test tracks
- Destructive and non-destructive testing
- Certified ballistic armor welding
- Engineering
- Live-fire test ranges
- Explosive safety
- Fire bottle refurbishment
- Design and manufacture prototype vehicles for various military services
- Worldwide support – deployable workforce
- Technical training



The Red River Army Depot (RRAD) sustains the joint warfighter's combat power by providing ground combat and tactical systems sustainment maintenance operations.

INTRODUCTION

RRAD is a strategic national asset with more than 75 years of service to the United States and its Soldiers. Designated as the Center for Industrial and Technical Excellence (CITE) for Tactical Wheeled Vehicles, Bradley Fighting Vehicle System, Multiple Launch Rocket System (MLRS), Small Emplacement Excavator (SEE), rough terrain forklift and a multitude of secondary items, the depot is home to the only DOD location for remanufacture of road wheels and tracks for various vehicle systems.

RRAD employees conduct full spectrum maintenance operations on supported platforms at the Northeast Texas facility. Whether the requirement is for depot overhaul, 10/20 maintenance, or Inspect and Repair Only as Necessary (IROAN) programs, the RRAD team performs work to the standards specified by customers.

RRAD experts also travel beyond the depot gates to augment or establish maintenance and logistics programs in support of the joint warfighter and national military strategic partners.

RRAD, a subordinate of U.S. Army Tank-automotive and Armaments Command, has more than 1,400 buildings and structures with over 8 million square feet of floor space to accommodate repair/overhaul of heavy tanks, wheeled vehicles, electronic systems and artillery.

CAPABILITIES & MISSION EXECUTION

The depot's multi-skilled workforce, approximately 2,300 civilian employees and another 1,300 contract and tenant employees, possesses a wide range of technical resources including the capability to design, fabricate and manufacture a wide range of items, from specialty parts to unique prototype weapon systems and vehicles. The dedicated workforce provides continuous on-site support throughout the world.

Red River Army Depot team members Joe Curl and Darrell Colvins disassemble a freightliner vehicle. (U.S. Army photo by Sgt. 1st Class Michael Zuk)



A row of MaxxPro Mine Resistant Ambush Protected vehicles await shipment at Red River Army Depot. The depot is designated as the Secretary of the Army's Center of Industrial and Technical Excellence for Tactical Wheeled Vehicles. (U.S. Army photo)

RRAD was established in 1941 as an ammunition storage depot. Because of the demands of World War II, the mission was expanded to include general supply storage and tank repair. Throughout the years, the depot's missions have evolved, and today Red River is engaged in activities ranging in scope from remanufacturing/recapitalization of tactical wheeled vehicles to the production of M1 road wheels. RRAD is aggressively pacing its performance to accomplish the goals of the Army's transformation by engaging innovative initiatives, such as Lean Six Sigma, extensive partnering with industry, and enhanced business management techniques. The Red River Army Defense Complex is the largest single employer in the Greater Texarkana area.

INDUSTRIAL SKILLS & FACILITIES

RRAD is situated on more than 15,000 acres in temperate Northeast Texas with a wealth of resources that make it an ideal multi-industrial complex.

Dynamometer Facility – With 28 test cells, this facility can test engines and transmissions to OEM specifications.

Electronic Repair – RRAD experts troubleshoot and repair the sophisticated electronic assemblies, sub-assemblies, and wiring harnesses used in fire control systems.

Fabrication and Metal Processing – Through a general machine shop operation, RRAD provides metal fabrication, reclamation and modification.

Machine Shop Facilities – Two complete machine shop facilities repair used components and manufacture from raw stock parts to be used in the rebuild and modification of systems; each shop uses both conventional and computer numeric control machines.

Maneuver Systems Sustainment Center – With more than 300,000-square-feet of space designed with modern manufacturing principles in mind, this facility is dynamically enhancing the efficiency of tactical vehicle production at the depot.

Painting Facility – RRAD's painting facility has the capability to paint small components to the entire vehicle with three-color camouflage Chemical Agent Resistant Coating.

Rubber Products Division – RRAD has proven experience in rubberization of track and road wheels.

FIND OUT MORE

Red River Army Depot
100 James Carlow Dr.
Texarkana, TX 75507-5000

<https://www.redriver.army.mil/>

 /RRADTX

 @RRAD_TX

SIERRA ARMY DEPOT

LOCATION

- Herlong, California

Soldiers from the 28th Combat Support Hospital traveled to Sierra Army Depot in Herlong, California, to receive new medical equipment from the Medical Materiel Readiness Program. (U.S. Army photo by Ellen Crown)



Sierra Army Depot (SIAD) provides rapid, expeditionary logistics support and long-term sustainment solutions to enhance readiness for the total Army and joint force.

INTRODUCTION

Designated as a Center for Industrial and Technical Excellence (CITE) for all Petroleum and Water Systems, and Operational Project Stocks, SIAD provides a unique readiness platform to the total Army and joint force. SIAD provides a wide variety of long-term logistics and sustainment solutions ranging from equipment receipt and asset visibility to long-term care, storage and sustainment, to repair/reset of all Army fuel and water systems. The depot is a subordinate of U.S. Army Tank-automotive and Armaments Command and offers an enterprise-wide competitive solution to logistics challenges and fills a critical void in materiel and equipment management nearing the end of its first life. These unique operations provide a readiness and operational value to the Department of Defense through management and controlled redistribution of this equipment.

Sierra is highly experienced with equipment reset, new assembly/kitting operations, training operations, maintaining operational project stocks, and a redistribution mission for Class II and IX items. It has established an End-of-First life cycle center for undispositioned combat and non-combat vehicles.

SIAD supports similar functions for Organizational Clothing and Individual Equipment (OCIE) to receive, identify, classify, receipt/record clothing for multiple agencies such as the program manager, Defense Logistics Agency, and the U.S. Air Force. Sierra can process “excess” OCIE from these agencies and various clothing issue facilities (CIFs) as well as returned items from Southwest Asia including posts, camps and stations. These unique capabilities have

enabled Sierra to become a consolidation and distribution center for the Clothing Management Office (CMO), supporting brigade-level OCIE reset operations and the U.S. Army Reserve CIF.

CAPABILITIES & MISSION EXECUTION

SIAD was established in 1942 as an ordnance and general supply storage depot. Over the years, SIAD has adapted to changing conditions by becoming home of operational project systems. Today, SIAD offers a range of unique logistics, sustainment and maintenance capabilities.

Capabilities include:

- Certified in both ISO 9001:2008 Quality Management and ISO 14001:2004 Environmental Standard; on track to become a VPP Star-certified installation
- More than 36,000 buildable acres
- 10,000-foot runway capable of supporting military and commercial aircraft
- Experts in assembly and kit configuration management, packaging and containerization of military unique systems
- Continuously invests in process improvement to refine and advance core competencies of logistics, rapid deployment and industrial operations
- Executes the receipt, accountability, storage, care of supplies in storage, reset, upgrades, system configuration, kitting and assembly, and worldwide

shipping on a number of programs to include Army Prepositioned Stocks, Force Provider, wholesale stocks and various fleet commodities

- Serves as a central management location for item and program-managed wholesale stocks and assets; receives, records, classifies, stores, maintains, sustains and ships material on owners' direction; total visibility of assets and materials to determine disposition and analyze future requirements
- Modern organic transportation network, capable of supporting all military and commercial aircraft, rail and trucks able to respond immediately to all requirements worldwide
- Preservation and packaging prototyping
- The Army's largest dedicated retrograde facility for equipment and material returning from units and theater; performs logistics management on a majority of the agency's non-Army managed items, Army managed items, and returned Class IX equipment for reutilization and redistribution with guidance from item and program managers
- Manages a majority of the Army's retrograded nonstandard equipment (NSE); receives, identifies, classifies, inventories, stores, secures, inspects, packages and ships worldwide.
- Receives, identifies, classifies, inventories, stores, secures, inspects, packages, and ships worldwide a large volume of the Army's OCIE items
- Manages excess Class VII major end items in its combat vehicle and equipment End-of-First Life Cycle Center; more than 26,000 combat vehicles and equipment items stored for individual item managers; receives, identifies, classifies, inventories, stores, secures and ships assets; performs controlled parts harvesting for production lines, active Army units, and Foreign Military Sales

INDUSTRIAL SKILLS & FACILITIES

With 1,192 structures from igloos to warehouses and maintenance buildings, SIAD produces world-class results in every challenge the depot faces.

Containerization and Assembly – The depot's kitting and assembly capability includes prototyping configuration, inspection and assessment of returns, replacements, preservation and packaging, equipment testing, containerization and shipment.

Container Rotator – The rotator is used as an efficient way to rotate ISO, TRICON and MIL-VAN shipping containers, reducing the total handling time from several hours to

20-minutes and reducing manpower needs for container logistic support.

End-of-First Life Center – SIAD's combat vehicle End-of-First Life Center includes equipment consolidation, surveillance and inspection, prepositioned stock, care of supplies in storage, asset and inventory management, regeneration programs for both end items and subcomponents, upgrades and redistribution, configuration management, kitting, and system assembly/disassembly.

Maintenance – SIAD's maintenance personnel are able to facilitate mechanical repairs, corrosion control, metal fabrication and repairs.

Retrograde, Reutilization and Redistribution – The largest organization at SIAD, the reclamation and retribution facilities receive retrograde materials from southwest Asia, Europe and posts, camps and stations across the U.S.

Transportation – SIAD is recognized for its transportation capabilities because of its airfield, its joint air operations training and the improved logistical support to the warfighter.

FIND OUT MORE

Sierra Army Depot
74 C St.
Herlong, CA 96113

<https://www.sierra.army.mil/>

 /Sierra Army Depot (Official)

 @tacomsiad

Reclaimed add-on armor removed from Humvees at Red River Army Depot in Texas is sent to Sierra Army Depot in California to be reset, packed and stored to meet readiness demands, ultimately saving taxpayer dollars. (U.S. Army photo)



WATERVLIET ARSENAL

LOCATION INFORMATION

- Watervliet, New York

This 155 mm howitzer tube is undergoing a horizontal heat treatment process at Watervliet Arsenal. The tube is heated to nearly 1,700 degrees and then rapidly cooled. (U.S. Army photo)



The Watervliet Arsenal (WVA) provides manufacturing, engineering, procurement and quality assurance for cannons, mortars and associated materiel throughout the acquisition life cycle.

INTRODUCTION

WVA, widely known as “America’s Cannon Factory,” is ISO 9001:2008 certified and is designated as a Center for Industrial and Technical Excellence (CITE) for cannon and mortar systems.

At the arsenal, approximately 560 Department of the Army personnel tied to on-site production and machinists work in tens of thousandths of an inch tolerances on products as small as can fit into a pants pocket to as large as a 30-foot howitzer barrel.

WVA is also home to Benét Laboratories, a Malcolm Baldrige Award recipient, whose mission includes the development of arsenal products and technology for future weapon systems. This arrangement of research, development and manufacturing at a single site facilitates concurrent design and manufacturing.

The \$1.6 billion arsenal-manufacturing complex is situated on a 143-acre site and spans 72 buildings with 2.1 million square feet of manufacturing and administrative space. WVA is a subordinate of U.S. Army Tank-automotive and Armaments Command.

CAPABILITIES & MISSION EXECUTION

The arsenal readily offers a full complement of modern manufacturing and laboratory equipment, along with a highly trained staff of scientists, engineers, technicians and machinists to any industry – military or civilian.

Watervliet Arsenal and its partner, Benét Laboratories, are the Army’s capability and Center of Excellence for large-caliber weapon systems. Watervliet and Benét support the Army’s fighting force with tank, artillery, mortars and other

components. Co-location of research, design, development, engineering and manufacturing provides customers quick, seamless transition from concept design through prototyping to production. This is an integrated and inherently lean activity that focuses upon manufacturing and technology readiness.

The arsenal partners with all of the acquisition community, private industry and government, in the design and prototyping of large-caliber weapon systems. Customer expectations are exceeded by the arsenal's expertise in ultra-high-pressure components and advanced coatings that are stronger and lighter with longer service lives. A recently added dimension to WVA is public-private partnering. These on-site private industry companies broaden Watervliet's capability and capacity with research, manufacturing, and facility maintenance expertise.

The oldest continuously active arsenal in the United States, WVA began operations during the War of 1812. After decades of producing ammunition cartridges, wooden-gun carriages and saddles, the arsenal was chosen in 1887 to be the nation's cannon factory. For more than 200 years, WVA has produced critical weapons, parts and wartime material that has helped hundreds of thousands of the nation's warfighters come home safely from battle.

INDUSTRIAL SKILLS AND FACILITIES

WVA is a \$1.6 billion arsenal-manufacturing complex situated on a 143-acre site and spans 72 buildings with 2.1 million square feet of manufacturing and administration space.

Boring – WVA has the capability of boring components as well as computer numerical controlled contour boring.

Fabrication/Welding – WVA has punch presses up to 30-tons, press brakes up to 200-tons and metal forming rolls to handle up to 3/8 inch thickness.

Flow Form – WVA capabilities include a cold work process used to manufacture dimensionally precise, round, seamless, hollow components.

Grinding – WVA has a wide range of precision grinding capabilities.

Milling – WVA is equipped with a large variety of vertical and horizontal milling machines, both conventional and computer numerical controlled.

Rotary Forging – WVA maintains an advanced rotary forging capability for tubes, which is capable of handling work pieces from 21.75 inches in diameter down to 4 inches in diameter, and up to 32.75 feet in length. Recently, the forge has been upgraded to do solid bars in various configurations.

Sheet Metal Work – Sheet metal shops at WVA are equipped to shear, roll and bend sheet metal.

Manufacturing and Technology Center – This facility is equipped with a variety of modern machining equipment, which provides the versatility to machine virtually any part configuration.

Tool Room – WVA has a state-of-the-art facility available for a wide range of services, including the capability to reverse-engineer, design, manufacture, prototype, and repair fixtures, gages, end mills and other items requiring close tolerances.

Turning – WVA is equipped with a large variety of turning capabilities, both conventional and computer numerical controlled.

Water Jet and Laser Cutting – WVA has the capability to water jet plate stock with various table sizes, and has recently added a 5000-watt fiber laser cutter.



An M284 155 mm howitzer tube is forged at Watervliet Arsenal after it was heated in a state-of-the-art furnace installed through a public-private partnership with Electralloy. The tube was heated to nearly 2,000 degrees before the rotary forge pounded it into the near shape of a howitzer tube. (U.S. Army photo)

FIND OUT MORE

Watervliet Arsenal
1 Buffington Street
Watervliet, NY 12189-4050

<https://www.wva.army.mil/>

[f](#) /WatervlietArsenal

[t](#) @Watervliet_Army



U.S. ARMY SECURITY ASSISTANCE COMMAND

The U.S. Army Security Assistance Command (USASAC) is responsible for managing security assistance programs and Foreign Military Sales (FMS) for the Army – acting as the primary entry point for U.S. Army materiel and service-related FMS requirements.

PRIMARY LOCATIONS

- Redstone Arsenal, Alabama – Headquarters
- New Cumberland, Pennsylvania
- Fort Belvoir, Virginia
- Fort Bragg, North Carolina
- Saudi Arabia

INTRODUCTION

USASAC leads the U.S. Army Materiel Command’s (AMC) Security Assistance Enterprise. The command develops and manages security assistance programs and FMS cases to build partner capacity, support geographic Combatant Command engagement strategies, and strengthen U.S. global partnerships.

USASAC implements approved U.S. Army security assistance programs, including FMS of defense articles and services to eligible foreign governments. The command is responsible for life cycle management of FMS cases, from pre-letter of request to development, execution and closure.

CAPABILITIES & MISSION EXECUTION

To carry out the Army security assistance mission, USASAC relies on all AMC life cycle management commands, as well as other DOD agencies and U.S. industry to support its processes. Sale of equipment to overseas customers includes the opportunity for the same “total package” of quality materiel, facilities, spare

ABOVE: A line of Bradley Fighting Vehicles are ready for offloading at the Yermo, California, rail yard. Members of the 347th Regional Support Group offload and stage hundreds of pieces of equipment to be conveyed to Fort Irwin, California. (U.S. Army photo by Capt. Kevin Cronen)

OPPOSITE PAGE: Chief Warrant Officer 2 Christina Winfield (right) and Chief Warrant Officer 2 Anthony Sloan, logisticians with the 310th Sustainment Command (Expeditionary) Advise and Assist team, track the receipt of a shipment of M1A1 Abrams tank repair parts acquired by the Iraqi security forces through Foreign Military Sales. (U.S. Army photo by Capt. A. Sean Taylor)

parts, training, publications, technical documentation, sustainment, and other services that AMC provides to U.S. Army units.

USASAC supports Army and allied efforts from its headquarters at Redstone Arsenal, and its two former headquarters in New Cumberland and Fort Belvoir.

Fort Bragg is home to the U.S. Army Security Assistance Training Management Organization (USASATMO), a USASAC subordinate that facilitates deployment of training teams throughout the world in support of equipment purchased through FMS.

USASAC subordinate organizations the Office of the Program Manger – Saudi Arabian National Guard and the Ministry of Interior – Military Assistance Group both operate out of Saudi Arabia, providing on the ground support to our Saudi allies.

HISTORY

Security assistance, a national program administered by the State Department, is a major component of U.S. foreign policy.

While foreign aid functions of the U.S. Army technical services had been around for decades, they were not formalized under AMC until 1965. Over the next several decades, these functions changed and evolved until that capacity was re-designated as the U.S. Army Security Assistance Command in 1990.

Since its formation, USASAC has supported major military operations and helped spearhead international peacekeeping and humanitarian efforts.

FIND OUT MORE

U.S. Army Security Assistance Command
4402 Martin Road
Redstone Arsenal, AL 35898

Website: <https://www.army.mil/info/organization/usasac/>

 /USASAC

 @usasac

 /U.S. Army Security Assistance Command



U.S. ARMY SECURITY ASSISTANCE TRAINING MANAGEMENT ORGANIZATION

LOCATION

- Fort Bragg, North Carolina

Four UH-60M helicopters fly over Malmen Air Base, Linköping, Sweden, during training led by the Technical Assistance Field Team provided by the U.S. Army Security Assistance Training Management Organization. (U.S. Army photo)



The U.S. Army Security Assistance Training Management Organization (USASATMO) facilitates deployment of training teams throughout the world to provide training tailored to a country for equipment purchased through Foreign Military Sales (FMS).

INTRODUCTION

USASATMO is a subordinate command of the U.S. Army Security Assistance Command. USASATMO supports worldwide deployments of security assistance teams to support Army Security Assistance requirements and missions outside the continental United States. USASATMO provides personnel, financial and FMS case management services and oversight.

USASATMO is the U.S. Army's only organization dedicated to meeting the challenges of overseas training management for the Army Security Assistance enterprise. USASATMO's motto is "Training the World, One Soldier at a Time," and the program consistently has teams deployed worldwide.

CAPABILITIES & MISSION EXECUTION

USASATMO supports security assistance requirements with military, Department of the Army Civilians and contractors. Security assistance teams (SATs) receive their support through an appropriate FMS case and utilize equipment that is the property of the host nation. Letters of requests from the host nation begin the request process. The lead-time for a SAT can be one to 18 months and can have a duration from a few days to several decades, dependent upon the specific requirement.

The Engagement Branch at USASATMO has a global capability of providing security assistance teams to support overseas missions in support of the security assistance enterprise. Capabilities include, but are not limited to, leadership development, professional military education, military peacekeeping operations, small unit tactics, and military decision making process and planning.

USASATMO also employs active duty and civilian aviators with specialized expertise in aviation training, safety and operations. Capabilities include aviation management, aviation mission assessment, safety surveys, basic aviation academic instruction, aircrew qualification, flight training and advanced tactics, and environmental-specific instruction.

FIND OUT MORE

U.S. Army Security Assistance
Training Management Organization
Black Devil Road
Fort Bragg, NC 28307

<http://www.usasac.army.mil/usasatmo.aspx>

THE MINISTRY OF INTERIOR–MILITARY ASSISTANCE GROUP

LOCATION

- Riyadh, Kingdom of Saudi Arabia

Former Deputy Defense Minister of Saudi Arabia, Amir Salman bin-Sultan, inspects a U.S. Army AH-6i aircraft at the Boeing facility in Mesa, Arizona. Prince Sultan visited the factory during the delivery ceremonies of Saudi Arabia's first AH-64E helicopter in 2014. (U.S. Army photo by Richard Bumgardner)



The Ministry of Interior-Military Assistance Group (MOI-MAG) is a U.S. Army Security Assistance Command (USASAC) subordinate organization that trains and provides technical assistance to the Foreign Military Sales (FMS) qualified sectors of the Saudi Ministry of Interior.

INTRODUCTION

MOI-MAG (formerly called Facilities Security Forces-Training Advisor Group or FSF-TAG) was restructured, transitioning in 2015 from the administrative control of U.S. Army Central Command to USASAC. The change in designation and mission expansion was fueled by the heightened security environment and physical threats around and within the borders the Kingdom of Saudi.

MOI-MAG provides technical assistance to the FMS qualified sectors of the Saudi Ministry of Interior through: institutional military training programs, engineering and design support, explosive ordnance, Ranger and Special Operations Forces training, aviation advisory support, and participation in the International Military Education and Training program.

The Saudi Ministry of Interior contributes to regional and global stability, strengthens military support for strategic partners, and limits the spread of transnational threats, including terrorism and trafficking of narcotics, weapons and people.

CAPABILITIES & MISSION EXECUTION

MOI-MAG currently supports five FMS cases totaling \$134 million to train and advise Saudi's Facilities Security Forces, special security forces, border guard and its General Security Aviation Command.

The protection of critical infrastructure facilities has a considerable impact on the global economy and stability throughout the Middle East. This partnership advances the

strategic relationship between the U.S. and Saudi Arabia. The renewal and expansion of MOI-MAG in 2015 speaks to the continued commitment of U.S.-Saudi relations. MOI-MAG bolsters the Army Operating Concept 2020-2040 by shaping the environments in support of U.S. Army Central Command to further develop partner capacity.

FIND OUT MORE

<https://usasac.army.mil/moimag/>

OFFICE OF THE PROGRAM MANAGER— SAUDI ARABIAN NATIONAL GUARD MODERNIZATION PROGRAM

LOCATION

- Riyadh, Kingdom of Saudi Arabia

AH-64 Apaches operated by the U.S. Army's 4th Battalion, 227th Attack Reconnaissance Battalion, 42nd Combat Aviation Brigade, and Royal Saudi Land Forces personnel from 1st Battalion, 3rd Aviation Group, take off into the desert at the start of a practice air assault during friendly exercises near Tabuk, Saudi Arabia. (U.S. Army photo by Sgt. Harley Jelis)



The U.S. Army's Office of the Program Manager-Saudi Arabian National Guard Modernization Program (OPM-SANG) is a U.S. Army Security Assistance Command (USASAC) subordinate organization that uses civilian personnel based in Saudi Arabia to provide advice and assistance in modernizing the Kingdom's Ministry of the National Guard (MNG).

INTRODUCTION

OPM-SANG's mission is to maintain and enhance the relationship between the Kingdom of Saudi Arabia (KSA) and the United States. The program exists to advise and assist, increasing the capacity of the MNG to defend KSA, while continuing to improve the enduring partnership between the two nations. OPM-SANG helps build international partner capacity, providing both interoperability and independent capability for the KSA. This mission is vital to achieving U.S. national security objectives and stability throughout the Middle East.

Within the framework of the Army's Prevent, Shape, and Win strategy, OPM-SANG is a dynamic shaping entity, which assists in building the capacity of a strategically important partner within the region. The modernization program will continue to develop the MNG's capability to unilaterally initiate, sustain and operate modern military organizations and any security contingency within the confines of the KSA.

The modernization of the full-time SANG encompasses training, equipment, maintenance, supply, procurement, management, organization, health care and facilities. It is fully funded by the government of Saudi Arabia through Foreign Military Sales (FMS) cases executed by USASAC.

CAPABILITIES & MISSION EXECUTION

OPM-SANG has approximately 300 Army and DA civilian personnel, many of whom serve as advisers and come from a diverse background with numerous military occupational skills. Using their military expertise and diplomatic skills, these advisers are fully embedded within their organizations and meet daily with commanders, staff officers and Soldiers to provide their Saudi counterparts the best advice in the areas of personnel, training, logistics and equipment. To date, OPM-SANG has managed more than \$39 billion in FMS cases that purchased weapons, vehicles, training and rotary-wing aircraft.

OPM-SANG is a security assistance success story, in large part due to the close working relationship between itself and the MNG at all levels of leadership. With the continued support of the U.S. Army, DOD and the Department of State, the SANG modernization program will continue to build upon its past progress and success.

FIND OUT MORE

<https://www.army.mil/OPM-SANG/>

 /opm.sang

AMC

BY THE NUMB**3**RS

178

**BILLION DOLLARS
TOTAL IN FOREIGN
MILITARY SALES**

50

**STATES WITH AN AMC
PRESENCE OR IMPACT**

12,528

**SCIENTISTS &
ENGINEERS**

7,062

**MECHANICS,
ELECTRICIANS &
MACHINISTS**

38,141

**PIECES OF
EQUIPMENT
RESET IN FY16**

**ONE CUSTOMER PRIORITY ...
THE JOINT WARFIGHTER**

97

**BATTALION
& BRIGADE
COMMANDS**

**COUNTRIES WITH AN AMC
PRESENCE OR IMPACT**

152

3,995,353

**PIECES OF EQUIPMENT
RESET SINCE 2003**

22,480

**PIECES OF
EQUIPMENT
TO BE RESET
IN FY17**

61,716

**DEDICATED AMC
EMPLOYEES WORLDWIDE**



U.S. ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY

As a separate reporting activity to U.S. Army Materiel Command (AMC), the U.S. Army Materiel Systems Analysis Activity (AMSAA) serves as AMC's analytic arm by conducting analyses across the materiel life cycle to inform critical decisions for current and future warfighter needs, while valuing the unique knowledge, experiences and backgrounds of its people.

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland
- Redstone Arsenal, Alabama

CORE COMPETENCIES

- Independent materiel performance and effectiveness analysis to inform Army acquisition and programmatic decisions
- Independent logistics analysis to support Army and AMC equipment and sustainment decisions
- Worldwide field data collection and analysis of Army systems to support the warfighter and senior leaders
- Joint service authenticated fielded weapons effects data/methodology to support warfighter targeting collateral damage estimation and analytic decisions

INTRODUCTION

Headquartered at Aberdeen Proving Ground, Maryland, AMSAA's 300-plus employees, including engineers, mathematicians, scientists and operations research analysts, provide systems analysis to support equipping and sustaining decisions.

AMSAA ensures that the required data, M&S, validation, verification and accreditation, methodologies, and skill sets support Army readiness, modernization, future operating concepts and force structures. AMSAA also has an AMC Analysis Group located at AMC headquarters at Redstone Arsenal, Alabama, to provide strategic decision analyses to senior AMC leaders.

AMSAA's 50-year reputation for "excellence in analysis" is rooted in the character, competency and commitment of the dedicated, professional workforce. Eighty percent of the AMSAA team holds at least one master's or doctorate degree, and all professionals are certified in at least one Acquisition Career Field.

ABOVE: Third Infantry Division Soldiers exit a Chinook, during Decisive Action Rotation 16-06 at Fort Irwin, California. AMSAA recently provided Army leaders with analysis of possible major upgrades for the Chinook. (U.S. Army photo by Spc. Kyle Edwards)

-
- Certified system-level performance data development to support Army modeling and simulation (M&S), studies and analyses
 - Strategic/corporate-level decision analysis to inform AMC and Department of the Army senior leader decisions

CAPABILITIES & MISSION EXECUTION

AMSAA's responsive and comprehensive systems analysis promotes current and future Army readiness and the development of the Future Force. AMSAA's analysis significantly contributes to enable cost savings/ avoidances, more reliable and effective equipment, and risk reduction.

Examples of key AMSAA efforts include:

- Reliability analyses;
- Risk assessments;
- Condition Based Maintenance;
- Development of weaponeering support tools and data for the joint warfighter;
- Strategic analyses for AMC leadership; and
- Analysis support for major Army systems such as H-47 Block II, M113 Replacement, the Joint Light Tactical Vehicle, Distributed Common Ground System Army, Mid-Tier Networking Vehicular Radio, and Dominating Mobility Through Terrain Shaping and Engagement.

FIND OUT MORE

U.S. Army Materiel Systems Analysis Activity
392 Hopkins Road
Aberdeen Proving Ground, MD 21005

www.amsaa.army.mil/home.html



U.S. ARMY CHEMICAL MATERIALS ACTIVITY

The U.S. Army Chemical Materials Activity (CMA) is the world leader in programs to store, treat and dispose of chemical weapons safely and effectively.

PRIMARY LOCATIONS

- Aberdeen Proving Ground, Maryland
- Blue Grass Army Depot, Kentucky
 - The Blue Grass Chemical Activity's mission is to ensure the safe and secure storage of the chemical weapons stockpile until demilitarization is complete. The stockpile at Blue Grass is contained on 250 acres on the Blue Grass Army Depot, located in the rolling hills of central Kentucky. Blue Grass Chemical Activity is a tenant activity on the 15,000-acre depot.
- Pueblo Chemical Depot, Colorado
 - The Pueblo Chemical Depot (PCD) is one of two Army installations in the United States that currently stores chemical weapons. PCD stores a stockpile of chemical weapons comprising 7 percent of the nation's original chemical materiel stockpile.

INTRODUCTION

CMA's headquarters management team, as well as scientific, communications and support staff, is based at the Edgewood Area of Aberdeen Proving Ground, while other dedicated managers and staff fulfill the activity's mission at the two remaining chemical weapons stockpile storage sites at Blue Grass Army Depot and Pueblo Chemical Depot, as well as recovered chemical agent materiel sites and locations across the country.

CMA has developed and used technologies to safely store and eliminate chemical weapons at seven stockpile sites while protecting the public, its workers and the environment. CMA also has the storage mission at the nation's final two stockpile sites.

CAPABILITIES & MISSION EXECUTION

Store and Protect – Munitions Remaining

CMA is responsible for the safe and secure storage of chemical weapons at Blue Grass Army Depot and Pueblo Chemical Depot. The chemical agents and munitions at both sites are housed in designated storage areas and specially designed earth-covered magazines, commonly referred to as storage igloos or bunkers. Thorough job training and certification is designed to ensure safety is maintained at all times.

ABOVE: The Pueblo Chemical Agent-Destruction Pilot Plant, located at the Pueblo Chemical Depot, uses the Explosive Destruction System to safely process problematic munitions, including those that have leaked or are overpacked. (U.S. Army photo)

CORE COMPETENCIES

- Store and Protect
- Comply
- Assess and Destroy

Chemical Stockpile Emergency Preparedness Program

CMA is also responsible for safe storage of the nation's chemical weapon materials pending their ultimate destruction. The Chemical Stockpile Emergency Preparedness Program (CSEPP) works closely with the communities around the nation's remaining chemical weapons stockpiles in Kentucky and Colorado. CSEPP was created in 1985 when the U.S. Congress passed a law directing the Army to dispose of its aging chemical weapons inventory with maximum protection of the public and environment as its primary consideration. Since the program began, state and local emergency management officials have teamed with the Army and the Federal Emergency Management Agency to improve their ability to protect communities. The primary goal of CSEPP has been to educate and enhance emergency preparedness in communities surrounding the chemical stockpile stored at the Blue Grass Army Depot and Pueblo Chemical Depot. This partnership has helped these communities by enhancing emergency plans and providing chemical accident response equipment and warning systems.

Comply – Chemical Weapons Convention

The Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction, known as the Chemical Weapons Convention (CWC), entered into force April 29, 1997. At that time, the United States and 86 other nations became the first countries to sign and ratify the CWC, with 192 nations ratified as of 2015. In doing so, participating nations agreed to destroy all their chemical weapons and former chemical weapons production facilities and to abide by prohibitions from development, use, production and acquisition of chemical weapons.

Assess and Destroy –

Recovered Chemical Warfare Materiel

Recovered chemical warfare materiel (RCWM) includes items recovered from range-clearing operations, chemical weapons burial sites and other locations. Upon recovery, the CMA Recovered Chemical Materiel Directorate deploys specially trained personnel and mobile assessment and treatment systems to identify and treat RCWM using the best action determined.

UNIQUE R&D FACILITIES

Explosive Destruction System – This system uses cutting charges to explosively access chemical munitions, eliminating their explosive capacity before the chemical agent is neutralized.

Interim Holding Facilities – These facilities provide safe, temporary storage for recovered chemical warfare materiel at sites where storage facilities, such as igloos and bunkers, are unavailable.

Large Item Transportable Access and Neutralization System – This system treats large recovered items, such as ton containers, that are not treatable through other recovered chemical materiel technologies.

Magnetic Induction Decontamination System – This system decontaminates empty ton containers and scrap metal using thermal heating induced by magnetism.

Transportable Detonation Chamber – This chamber is a fully enclosed, explosive destruction technology that can destroy chemical munitions while also capturing any vapor with redundant air filtration systems.

FIND OUT MORE

U.S. Army Chemical Materials Activity
E4585 Hoadley Road
Aberdeen Proving Ground, MD 21010

<https://www.cma.army.mil/>



U.S. ARMY LOGISTICS SUPPORT ACTIVITY

The U.S. Army Materiel Command's Logistics Support Activity (LOGSA) is the Army's trusted source of readiness information and solutions at the tactical, operational and strategic levels of the Army.

PRIMARY LOCATIONS

- Redstone Arsenal, Alabama
- Tobyhanna Army Depot, Pennsylvania

CORE COMPETENCIES

- Functions as the Army's primary information collection and organization point for all units, depots and entities that deal in military materiel, equipment and life cycle management
- Serves as the Army's air clearance authority
- Responsible for the Army Oil Analysis Program
- Operates the Packaging, Storage and Containerization Center (PSCC), the Army's test facility for anything that's packaged and destined for other locations
- Produces PS Magazine, the Army's Preventative Maintenance monthly magazine for Soldiers

INTRODUCTION

LOGSA provides timely, accurate and valuable integrated life cycle logistics solutions, information, knowledge and expertise to enable Army readiness and support unified land operations. LOGSA delivers critical logistics information capabilities through analytical tools and business intelligence solutions to effectively acquire, manage, equip and sustain the materiel requirements of the U.S. Army.

LOGSA was formed by the merger of six logistics support activities and components in the 1993 Defense Base Closure and Realignment Commission legislation. The information LOGSA collects is fed into the everyday operations of life cycle management commands, which are responsible for their own cradle-to-grave operations.

LOGSA and its functionally diverse centers are deeply involved in the Army's materiel development process. The organization's workforce develops and trains software applications, standards and policy that ensure the establishment of a viable integrated product support strategy and programs that optimize system/equipment readiness and availability to meet operational performance capabilities. LOGSA continues to grow capabilities, educate users and move toward its vision to become the Army's trusted source of readiness information and solutions. Across the full spectrum of life cycle logistics, LOGSA is exploiting leading-edge information technology to create timely, accurate, actionable and decisive logistics solutions.

ABOVE: Staff Sgt. David Howard, a load planner with 457th Civil Affairs Battalion, 7th Mission Support Command, inspects a supply pallet in support of Operation Echo Casemate. All Army cargo that transported through airspace must first be cleared by the Logistics Support Activity. (U.S. Army photo)

CAPABILITIES & MISSION EXECUTION

To accomplish its mission, LOGSA is comprised of five centers with specific areas of specialization. The Enterprise Integration Center consists of the organization's technical and data experts. The Global Support Center is LOGSA's face to the field. The Logistics and Engineering Center provides strategic solutions for acquisition logistics. The Soldier Support Center handles logistics data and processes subject-matter experts. The PSCC at Tobyhanna Army Depot in Pennsylvania, the only LOGSA facility outside Redstone Arsenal, is the Army's test facility for anything that's packaged and destined for other locations.

As the Army's air clearance authority, LOGSA is charged with validating every piece of Army cargo that travels through the airspace. The unit conducts hazardous material verification and provides specific documents that permit items like missiles to be flown overseas. This is all done in accordance with individual country customs, Federal Aviation Administration guidelines and International Traffic in Arms Regulations.

LOGSA is also responsible for the Army Oil Analysis Program, which operates 11 laboratories worldwide that analyze more than 300,000 oil samples annually. The program helps prevent failures to aviation and ground weapons systems before they occur by detecting potential issues before they become problems.

LOGSA produces PS Magazine, the Army's Preventative Maintenance monthly. For more than 65 years, the magazine has provided Soldiers with the most up-to-date information on taking care of their equipment, and is now a digital and application-based publication that shows Soldiers how to repair and maintain equipment in a congenial manner.



FIND OUT MORE

U.S. Army Logistics Support Activity
3305 Redeye Road
Redstone Arsenal, AL 35898-7466

<https://www.logsa.army.mil>

 /Logistics-Support-Activity-150743154940364/

ABOVE: LOGSA produces PS Magazine, the Army's Preventative Maintenance monthly magazine for Soldiers. The magazine provides preventative maintenance news to Soldiers in the style of a comic book, using recurring characters and humor to cover a variety of maintenance subjects.



AMC KEY CONTACTS

U.S. Army Materiel Command
4400 Martin Road
Redstone Arsenal, AL 35898

Phone: 256.450.7000

DSN: 312.320.7000

Email:

usarmy.redstone.usamc.mbx.public-affairs@mail.mil

AMC Ombudsman: 256.450.7550

AMC Small Business Office: 256.450.7953

AMC Historian: 256.450.7851

www.army.mil/info/organization/unitsandcommands/commandstructure/amc/

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 /HQAMC

 /armymaterielcommand



THE U.S. ARMY MATERIEL COMMAND DEVELOPS AND DELIVERS MATERIEL READINESS SOLUTIONS TO ENSURE GLOBALLY DOMINANT LAND FORCE CAPABILITIES.

