



TECHNICAL CENTER



Innovating and Transforming the Future Army

The U.S. Army Space and Missile Defense Command Technical Center supports the joint warfighter by providing disruptive and critical technologies that meet today's requirements and address future needs, enabling warfighter dominance. The Technical Center manages science and technology, research and development, and conducts test programs for space, integrated air and missile defense, directed energy, and related technologies. As part of the Army Science and Technology enterprise, the Technical Center contributes to the current fight and enables the next generation to prevail in conflicts to come. As an invaluable part of the Army Test and Evaluation enterprise, the Technical Center manages and operates the Ronald Reagan Ballistic Missile Defense Test Site as a component of the Major Range and Test Facility Base, and conducts other test activities.

- Serves as the command's research, development, test and evaluation organization
- Operates in the overarching Army science and technology and test and evaluation framework
- Develops and demonstrates game-changing capabilities for Army warfighters
- Operates the Ronald Reagan Ballistic Missile Defense Test Site to support critical testing and space missions
- Collaborates across the Department of Defense and with industry and academia



Technical Center

The Technical Center collaborates and synchronizes its efforts across the Army with program executive offices, centers of excellence, combatant commands, other services, industry and academia. The Technical Center is geographically distributed in many sites, with its primary offices located at Redstone Arsenal, Alabama. Other locations are the Reagan Test Site located at U.S. Army Garrison-Kwajalein Atoll, Republic of the Marshall Islands, and the Reagan Test Site Operations Center located in Huntsville, Alabama.

On a daily basis, the civilians, Soldiers and contractors of the Technical Center focus on achieving their vision of “Innovating and Transforming the Future Army.” This contributes to the command’s ability to enable dominant multi-domain combat effects, protect the homeland and support strategic success – wherever and whenever required.

DIRECTED ENERGY

The Technical Center is the Army lead for high-energy laser technology development. This technology applies to multiple mission areas and can help address existing operational capability gaps. High-energy lasers can be a low-cost, effective complement to kinetic energy to address rocket, artillery and mortar threats; unmanned aerial systems; and cruise missiles. The Technical Center is also exploring high-power microwave technology for use in defeating unmanned aerial systems and improvised threats.

TACTICAL SPACE TECHNOLOGIES

As the Army lead for space research, development and engineering, the Technical Center develops, demonstrates and integrates technologies for responsive space and space superiority. Focus areas include persistent beyond line-of-sight communications via small satellites for forces deployed in remote areas; effective resolution imagery via small satellites; ground command and control systems to reduce operator burdens; and direct downlink of tactical data feeds.

TEST SUPPORT

The Technical Center is an invaluable part of the Army Test and Evaluation Enterprise and provides a suite of low-cost ballistic missile targets for use in developmental and operational air and missile defense testing, transportable and configurable launchers, and test support. It conducts test planning to meet customer requirements and provides accurate budget and schedule projections.



LABORATORY FACILITIES

The Technical Center continues to expand its unique laboratory facilities. Focused on the Technical Center’s core competencies, the technical laboratory facilities enable cutting edge research and development for new weapons systems, and sustainment and upgrades as these systems are fielded. The facilities also provide for hands-on mentoring of the next generation of Technical Center scientists and engineers to ensure continued success.

REAGAN TEST SITE

The Ronald Reagan Ballistic Missile Defense Test Site is a vital national asset providing live-fire developmental and operational flight testing of offensive and defensive missile systems, equatorial satellite launch capability, space object tracking and characterization, and atmospheric science research. The unique range and test facility is located 2,300 miles west-southwest of Hawaii in the U.S. Army Garrison-Kwajalein Atoll, Republic of the Marshall Islands. The Reagan Test Site provides test support to the Missile Defense Agency, the U.S. Air Force, the National Aeronautics and Space Administration and others. Additionally, the Reagan Test Site supports the command’s space missions in support of U.S. Strategic Command.



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