



## U.S. Army Space and Missile Defense Command



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U.S. Army Space and Missile Defense Command | FY24  
**Needs for Academia and Industry Partners**



## Introduction

### ***Academia and Industry Partners***

Developing optimal capabilities for Army space, missile defense and high-altitude forces requires a deliberate, collaborative effort between the United States Army Space and Missile Defense Command and partners in academia and industry. This partnership focuses on developing cutting-edge technologies to address our modernization efforts across the command's mission areas. Our partners in academia and industry provide USASMDC with awareness and access to new and emerging technologies while creating timely opportunities to accelerate the transition and fielding of new capabilities to the Army forces. We want to create the foundation for further collaboration and work toward addressing our modernization efforts.

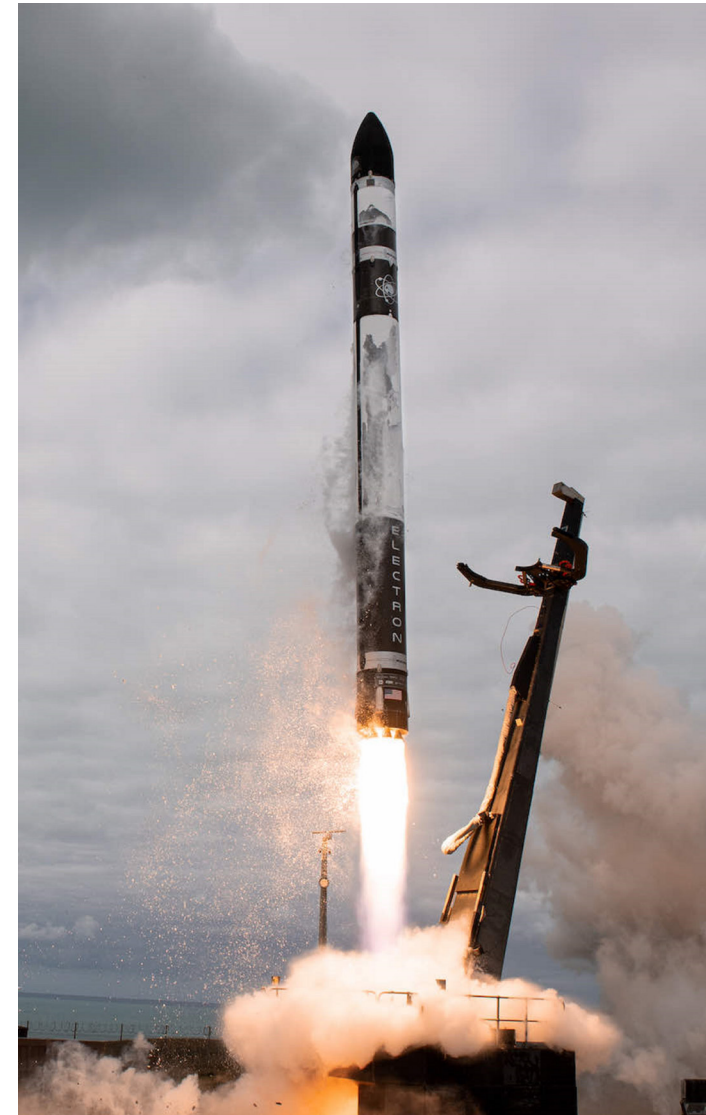


### **USASMDC Priorities**

- Accomplish our mission as a People First team of empowered, innovative, ready and resilient professionals
- Provide trained and ready forces for space, missile defense and high-altitude missions
- Conduct integrated planning and synchronized operations in the execution of our space and missile defense missions
- Prepare for future conflict

## Emerging Modernization Efforts

- Close space support
- Space in depth
- Synchronize command and control of Army space capabilities
- Appropriate level of authority at echelon
- Training and leader development
- Intelligence, surveillance and reconnaissance
- Offensive and defensive space operations
- Space domain awareness
- Navigational warfare
- Assured positioning, navigation and timing
- Missile warning
- Missile defeat across the kill chain
- Environmental monitoring



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Dist. A: Approved for public release #3130 (Edition 1)

## Needs for Academia and Industry Focus

- Space support to the warfighter
- High-altitude and its platform support to the warfighter (persistent high-altitude capabilities)
- Directed energy support to the warfighter
- Missile defense (detection, tracking and integration)
- Close space support capabilities
- Synchronize command and control of Army capabilities
- Space training and leader development
- Space domain awareness
- Navigation warfare
- Assured positioning, navigation and timing
- Force Tracking and Mission Management Center modernization
- Transmitter protection (obfuscation)
- Obfuscation and counter obfuscation
- Cradle-to-grave tracking of hypersonic missile threats by integrating legacy platforms and developing new space and terrestrial platforms
- The ability to provide technical space superiority weapon system training to a globally distributed population of students in real time



## About the Command

The U.S. Army Space and Missile Defense Command is the Army’s force modernization proponent and operational integrator for global space, missile defense and high-altitude capabilities. It occupies strategic key terrain that lies at the nexus of integrated deterrence between three combatant commands: U.S. Space Command, U.S. Strategic Command and U.S. Northern Command. It has a unique perspective on the convergence of space and missile defense in multidomain operations and the role it plays in integrated deterrence.

USASMDC provides trained and ready space and missile defense forces and capabilities to the warfighter and nation. It builds future space and missile defense forces for tomorrow by researching, testing and integrating space, missile defense, cyber, directed energy, hypersonic and related technologies for the future.

The common link uniting USASMDC’s 2,300 Soldiers and civilians across 13 timezones and 19 worldwide locations is a commitment to defending the nation and its allies.

### Mission

USASMDC develops and provides current and future global space, missile defense and high-altitude capabilities to the Army, joint force, and our allies and partners, to enable multidomain combat effects; enhance deterrence, assurance and detection of strategic attacks; and protect the nation.

### Commander’s Vision

Our vision is “ONE TEAM!” that achieves our shared objectives via *collaboration, feedback, assessment* and *smart adaptation* to continue demonstrating value to warfighters, our Army, our joint interservice and interagency teammates, our nation, and to our allies and partners.



## Role of USASMDC in Army's Force Modernization

### ***Modernizing Army space, missile defense and high-altitude capabilities and forces***

Since 1957 USASMDC has provided critical space and missile defense capabilities to the Army and joint force. The USASMDC commander is the Army force modernization proponent for Army space, missile defense and high-altitude defense capabilities.

**Army Space** is land-centric, providing scalable, expeditionary and forward-postured forces in contested and austere environments capable of keeping pace with maneuver forces in support of multidomain operations.

These capabilities play a key role in the success of our armed forces today, and we expect the demand for Army space, missile defense and high-altitude capabilities to continue to increase as we move into the future. Our capability development supports Army modernization efforts through continuous transformation to deliver the Army of 2030 and design the Army of 2040 with improved capabilities and formations tailored for multidomain operations.



## Help from our Academia and Industry Partners

### ***Questions for Academia and Industry***

The following questions highlight modernization areas of interest to the command and provide insight on where academia and industry partners can contribute:

- How can your organization best support a multidomain operations range that enables space training?
- Can your organization develop test targets on orbit (high-altitude or low-earth orbit at a minimum) in support of Army and joint training?
- What investments are we making for our Army in terminals...
  - Tactical Satellite Communication
  - Alternative Navigation Systems
  - Overhead Persistent Infrared
- How are we building toward multidomain operations for the Army of 2030?
  - Multidomain Task Force/Multidomain Effects Battalion equipment
  - Theater Strike Effects Group equipment and enablers
  - Smaller, faster, lighter
  - “Use single rounds...” – Ukrainian invisible battle to jam Russian weapons
- What is your organization doing to integrate across major business units or business sectors; i.e. is your space division talking to your combat vehicle division, or your missile or missile defense division?
- How can we truly start integrating and purchasing for missile defeat operations? Is this more than just hardware? Organizational? Artificial intelligence/machine learning?