U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND AVIATION & MISSILE CENTER

Overview Brief
DEVCOM VISION AND MISSION

VISION

To be the scientific and technological foundation of the Future Force Modernization Enterprise through world-leading research, development, engineering and analysis.

MISSION

To provide the research, engineering, and analytical expertise to deliver capabilities that enable the Army to deter and, when necessary, decisively defeat any adversary now and in the future.
OUR LEADERSHIP

Director
Mr. Jeffrey Langhout (SES)

Chief of Staff
Mr. Steve Fisher

MILDEP
COL Eric Rannow

Technology Development Directorate
Ms. Christi Dolbeer (Acting)

Systems Readiness Directorate
Mr. Keith Darrow (SES)

Software, Simulation, Systems Engineering and Integration Directorate
Dr. James Kirsch (SES)

Scientific & Technical Positions (STs)

Optical Sciences
Radio Frequency Sensors
Aerodynamics and Preliminary Design
Protective Technologies

Dr. Henry Everitt
Dr. Brian Smith
Dr. Mahendra Bhagwat
Dr. Donna Joyce
OUR MISSION

Develop, integrate, demonstrate, and sustain aviation and missile systems capabilities to support modernization priorities and improve readiness.
PRIMARY MISSION AREAS

1. Develop and integrate next generation technologies to ensure aviation and missile dominance.

2. Provide world class functional engineering expertise to our PEOs, MDA, RCCTO, and other critical partners.

3. Provide world class sustainment engineering expertise to our AMCOM partners.

4. Recruit and develop the engineering talent to achieve the above.
BY THE NUMBERS

11,942
FY20 Strength

2,982
Civilian

10
Military

~8,940
Contractor

FY20 Funding
$4.3B

4%
Aviation S&T

5%
Missile S&T

65%
Army

26%
other

Core Competencies

Science and Technology:
- Materials and Structures
- Guidance, Navigation, Sensors/Seekers
- Propulsion, Explosives, Energetics, Warheads, Fuzing and Actuation
- Air Vehicles Technology
- Aviation Autonomy and Missiles Technology
- Air Defense Sensor Technology

Capabilities Engineering:
- Software Engineering
- Weapons Assurance
- Modeling and Simulation
- Configuration Management
- Prototype Design and Development
- Multidiscipline Acquisition and Project Engineering
- Systems Engineering, Integration, and Interoperability
- Airworthiness
- Aviation and Missile Product Performance

Colorado Springs, CO
Joint Base Langley – Eustis, VA
NASA Ames – Moffett Field, CA
Corpus Christi, TX
HQ Redstone Arsenal, AL

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7
ARMY PRIORITIES

#1: People
People are the Army’s greatest strength and its most important weapon system.

#2: Readiness
The Army must be ready to defeat any adversary, anywhere, whenever called upon, under any condition.

#3: Modernization
The Army must modernize to remain lethal and ready to fight tomorrow, against increasingly capable adversaries and near-peer competitors.

#4: Reform
The Army will improve the way we do business, including how we implement our top priorities, to make the Army more lethal, capable, and efficient.
FY20 TOTAL REVENUE ($4.3B)

- **Army**:
  - Procurement Mission: $4M
  - Non-S&T (RDTE): $25M
  - MSL S&T: $208M
  - AVN S&T: $177M
  - OMA Mission/OCO (DEVCOM): $17M
  - AMCOM: $335M
  - PEO AVN: $967M
  - MDA: $410M
  - PEO M&S: $592M
  - NAVY: $114M
  - Air Force: $295M
  - Other Army: $295M
  - Other PEO: $573M
  - Other DoD: $249M
  - Non-Gov: $2M
  - Other Fed Gov: $16M
  - Non-Gov: $2M

- **TOTAL REVENUE**: $4.3B

As of: 2 OCT 20
S&T PRIORITIES ALIGNED WITH THE ARMY MODERNIZATION STRATEGY

Supporting Army and Joint Readiness now and in the Future MDO Environment

RESEARCH ISO FUTURE FORCE
Driving the discoveries and innovations which will be critical to realizing new capabilities for the Army of 2030 and beyond.

ANALYSIS
Conducting objective experimentation and systems analysis to support the equipping and sustaining of our Warfighters.

ENGINEERING
Providing lifecycle engineering expertise to support fleet development and readiness across warfighting battlefield operating systems.
**AVIATION S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES**

**FUTURE ATTACK RECONNAISSANCE AIRCRAFT**

Critical combat system needed to prevail in future wars by enabling Army Aviation to achieve a “leap-ahead” in lethality, survivability, and reach to find, fix, and finish our pacing threats.

**FUTURE LONG RANGE ASSAULT AIRCRAFT**

Essential to exploit the windows of opportunity created by FARA and advanced teaming with UAS/ALE with its increased speed and reach providing significantly more lethal and effective Air Assault and MEDEVAC capabilities on the future battlefield.

**FUTURE UNMANNED AIRCRAFT SYSTEMS**

Advanced teaming FVL with next generation UAS delivering lethal and non-lethal air launched effects enables cross-domain fires to penetrate and dis-integrate enemy A2AD systems and exploit expanded maneuver to overmatch peer adversaries.

**MODULAR OPEN SYSTEMS APPROACH**

The government defined Modular Open System Approach will establish the digital backbone of FVL aircraft allowing for rapid and affordable integration of innovative avionics and mission equipment technologies into our platforms.
MISSILE S&T ALIGNMENT TO ARMY MODERNIZATION PRIORITIES

**LONG RANGE PRECISION FIRES**
Technologies for the development, integration and delivery of long range fires at the operational and strategic echelons to restore overmatch, improve deterrence, and disrupt A2AD on a complex, contested and expanded battlefield.

**AIR & MISSILE DEFENSE**
Technologies for the development of mobile air defense systems that reduce the cost curve of missile defense, restore overmatch, survive volley-fire attacks, and operate within sophisticated A2AD and contested domains.

**NEXT GENERATION COMBAT VEHICLE**
Technologies for active protection systems and enhanced lethal effects that will increase our ability to survive and win in the complex and densely urbanized terrain of an intensely lethal and distributed battlefield where all domains are continually contested.

**FUTURE VERTICAL LIFT**
Technologies for the development, integration, and delivery of aviation launched air-to-ground and air-to-air missile systems to restore overmatch within sophisticated A2AD and contested domains.

**ENGAGE FIRST**

**EXPAND THE DOME**

**ON THE MOVE**
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