The U.S. Army Research, Development and Engineering Command

Overview Brief

16 November 2016

APPROVED FOR PUBLIC RELEASE
What I Want to Leave You With

• RDECOM is the **Army’s premier organization** for science, technology and engineering

• **Support to the Warfighter** is our #1 priority …we support **current operations** and shape capabilities for the **deep future**

• We ensure the **decisive edge** for our Army, joint partners and **Nation**

• We have **operationalized RDECOM** - aligned **S&T funding to requirements** derived from the **Army Operating Concept** and **Warfighting Challenges**

• We optimize **S&T**; employing **system of systems** practices as well as **modernization**

• **Partnerships** with industry, academia, DoD labs, and our Allies are essential

**RDECOM will ensure S&T materiel readiness for 2040 and beyond**
What Our Nation’s Leaders are Saying about Science and Technology

President Barack Obama
“Whether it’s improving our health or harnessing clean energy, protecting our security or succeeding in the global economy, our future depends on reaffirming America’s role as the world’s engine of scientific discovery and technology innovation.”

Dr. Ashton Carter, Secretary of Defense
“Investing in science and technology early on, ensures that the Pentagon will have something on the shelf when it needs it, so that it does not have to start from scratch when it is too late.”

Hon. Eric Fanning, Secretary of the Army
“Tomorrow’s Army depends on its success in exploiting the best technology today. As global threats evolve, the Army must accelerate its own capabilities in areas like cyber, electronic warfare, and protecting our communication networks. Today, and in the future, our Army depends on maintaining a technological edge over our adversaries.”

Hon. Katrina McFarland, Acting Asst Secretary of the Army (Acquisition, Logistics & Technology)
“When we invest in S&T innovations, we invest in our vision for the U.S. Army—a force capable of meeting challenging fiscal climates head-on and maintaining our technological superiority over our adversaries.”

Continued investment in S&T enables the Army’s decisive overmatch
39th Chief of Staff of the Army

Top Priorities

#1 Army Readiness

#2 Future Army

#3 Take Care of the Troops

Modernization Focus Areas

• Aviation

• Command and Control

• Missile Defense

• Combat Vehicles

• Emerging Threats

General Mark A. Milley
How We Fit

GEN David G. Perkins
CG TRADOC

GEN Gustave F. Perna
CG AMC

Honorable Steffanie B. Easter
Acting ASA(ALT)

MG Cedric T. Wins
CG RDECOM

CSM James P. Snyder
CSM RDECOM

Mr. Jyuji D. Hewitt
Executive Deputy to the CG RDECOM

COL Raymond K. Compton
Chief of Staff, RDECOM

BG Thomas H. Todd
DCG RDECOM

AMRDEC
Aviation & Missile Research, Development & Engineering Center

ARDEC
Armaments Research, Development & Engineering Center

CERDEC
Communications-Electronics Research, Development & Engineering Center

ECBC
Edgewood Chemical Biological Center

NSRDEC
Natick Soldier Research, Development & Engineering Center

TARDEC
Tank Automotive Research, Development & Engineering Center

ARL
Army Research Laboratory
Our Organization

Vision
To be the Army’s enabling command in the development and delivery of capabilities that unburden, empower, and protect the Warfighter.

Mission
Provide innovative research, development and engineering to produce capabilities that provide decisive overmatch to the Army against the complexities of the current and future operating environments in support of the Joint Warfighter and the Nation.

Preeminent leaders in research, development and engineering
RDECOM S&T Workforce

Military 1%

Scientist and Engineers - 57%

General Engineering (26%)
Mechanical Engineering (16%)
Electronics Engineering (16%)
Computer Engineering (8%)
Aerospace Engineering (6%)
Computer Science (6%)
Chemical Engineering (3%)
Chemistry (3%)
Electrical Engineering (3%)
Physical Science (2%)
Physics (2%)
Materials Engineering (1%)
Biology (1%)
Management Analysis (1%)
Psychology (1%)

Total Workforce

Contractors - 42%

Civilians - 47%

Other 20%

Engineering Technician 6%

CP16 S&E Degree Distribution

Bachelor's 46%
Masters 44%
Doctorate 10%

Plus 37 More CP16 S&E Occupational Codes
Our Core Competencies

Delivering capabilities for the Army, joint warfighters, and our Nation
National reach of supporting locations enables development of materiel solutions
Where We Are – OCONUS

Driving innovation around the world with our allies and partners
How We Deliver Materiel Capability

RDECOM engages throughout the acquisition lifecycle

LCMCs and Depots
COCOMS / Field (6.7)
- RDECOM LNOs Embedded with FAST Teams
- Engineering Support for TDP’s to Depots
- Prototype Engineering Solutions for Overhaul And Rebuild

Engineering
(6.4–6.6)
- Systems Engineering
- Software Engineering
- Survivability / Lethality Engineering
- Prototyping, Modeling / Simulation

Technology Development
(6.2–6.3)
- Cyber Security and Operations
- Integrated Soldier Protection
- Autonomy-Enabled Formations

Research (6.1–6.2)
- Human Sciences
- Sciences for Lethality and Protection
- Information Sciences
- Sciences for Maneuver

ICDs / CDDs / CPDs
WFOs / CNA

ASAALT/AMC

AMC LCMCs

PEO / PMs (ASA(ALT))

RDECOM

ARL / RDEC LNOs Embedded in TRADOC COEs / Other Organizations

Research (6.1–6.2)

- Human Sciences
- Sciences for Lethality and Protection
- Information Sciences
- Sciences for Maneuver

LCMCs

RDEC Matrixed Engineers to PEO / PMs

RDECs

ARL
Did You Know…

RDECOM…

• Executes 74% the Army S&T budget

• Has over 515 active CRADA agreements with industry and academia

• Executes requirements from the White House, OSD, COCOMs, ASAALT, AMC and TRADOC

• Supports current operations based on real world threats identified in coordination with the intelligence community

• Provides the Army engineering support … “E” in RDECOM

• Runs the Army’s Science, Technology, Engineering, and Mathematics (STEM) Programs

• We have funded 23 Nobel Laureates

RDECOM will continue to leverage innovation to provide decisive overmatch