Business Industry Day

BG Thomas H. Todd III

Deputy Commanding General,
RDECOM

Senior Commander,
US Army Natick Soldier Systems Center

U.S. Army Commands (ACOMs)

- ✓ **Prevent:** *The Army prevents conflict by maintaining credibility based on capacity, readiness and modernization.*
- ✓ **Shape:** *The Army shapes the environment by sustaining strong relationships with other Armies, building their capacity, and facilitating strategic access.*
- ✓ **Win:** *If prevention fails, the Army rapidly applies its combined arms capabilities to dominate the environment and win decisively.*

The Strength of the Nation is the Army

Army Materiel Command

- ✓ AMC's **Mission** is to **Develop** and **Deliver** Global **Readiness** Solutions to Sustain Unified Land Operations … Anytime, Anywhere.
- ✓ Our **Vision** is to be the Premier Provider of Army and Joint **Readiness** to Sustain the Strength of the Nation.
- ✓ Our **Top Priority** is Providing the Equipment and Materiel the Joint Warfighter Needs to Accomplish their Mission.
- ✓ From Research and Development to Contracting; from Munitions Support and Manufacturing within the Army's Organic Industrial Base; from Logistics Readiness Centers at Army Installations; to Global Distribution and Deployment and Foreign Military Sales … AMC Touches Every Phase of the Materiel Lifecycle.
  AMC, as the Army's Lead Materiel Integrator (LMI), Leverages the Global Supply Chain and Delivers Materiel Readiness to Joint Forces … Worldwide.
- ✓ AMC is Encouraging Innovation, Developing Leaders, and Aggressively Reshaping in Order to Meet the Challenges of Force 2025 and Beyond.
- ✓ If a Soldier Drives it, Flies it, Wears it, Shoots it, Communicates with it, or Eats it … AMC Provides it.

Sustaining the Strength of the Nation!

RDECOM Organization

GEN David G. Perkins
CG TRADOC

GEN Dennis L. Via
CG AMC

Ms. Heidi Shyu
ASA(ALT) & AAE

U.S. ARMY RDECOM®

MG John F. Wharton
CG RDECOM

CSM James P. Snyder
CSM RDECOM

Mr. Jyuji D. Hewitt
Deputy Director RDECOM

BG Thomas H. Todd III
DCG RDECOM

- RFEC Atlantic
- RFEC Pacific
- RFEC Americas

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

Historical Perspective

BG Doriot's Vision:

Conceptualized a facility, The Institute of Man, to study the soldier, his clothing and equipment and how they function ***in relation to each other*** under world-wide environmental extremes presented by the combat battlefield.

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Natick Soldier System Center

78 Acres

459,000 Sq. Ft. of Lab Space

Total 174 Acres
(including 75 Family Housing units)

Total Personnel ~1498

Only Active Army Installation in New England

NSSC Tenant Organizations

Research & Technology Collaborators

US Army Natick Soldier Research, Development & Engineering Center
RDECOM

US Army Research Institute of Environmental Medicine
MRMC

US Navy Clothing & Textile Research Facility
NEXCOM

US Coast Guard Clothing Design & Technical Office
USCG

Product/Project Managers Development Partners

Product Manager Force Sustainment Systems
PEO CS&CSS

Product Manager Soldier Clothing & Individual Equipment
PEO Soldier

Product Manager Soldier Protective Equipment
PEO Soldier

US SOCOM Program Manager SOF Survival, Support & Equipment Systems
PEO-SOF Warrior/PEO-Special Programs

Program Executive Office – Agile Combat Support
Air Force Life Cycle Management Center

Sustainment, Logistics & Support

Soldier Chem/Bio Readiness & Sustainment Directorate
Integrated Logistics Support Center – TACOM LCMC

Natick Contracting Division
APG Contracting Center

US Army Garrison - Natick
Atlantic Region - IMCOM

U.S. ARMY RDECOM®

Who We Support

Defense

- Joint Program Executive Office for Chemical/Biological Defense
- Defense Logistics Agency
- Defense Advanced Research Projects Agency
- Defense Threat Reduction Agency

Other Government Agencies

- Office of the Surgeon General
- National Aeronautics & Space Administration
- Food and Drug Administration
- United States Department of Agriculture
- United States Forestry Service
- Bureau of Engraving and Printing
- Army Veterans Program
- Department of Justice
- Department of Homeland Security

Unique Facilities

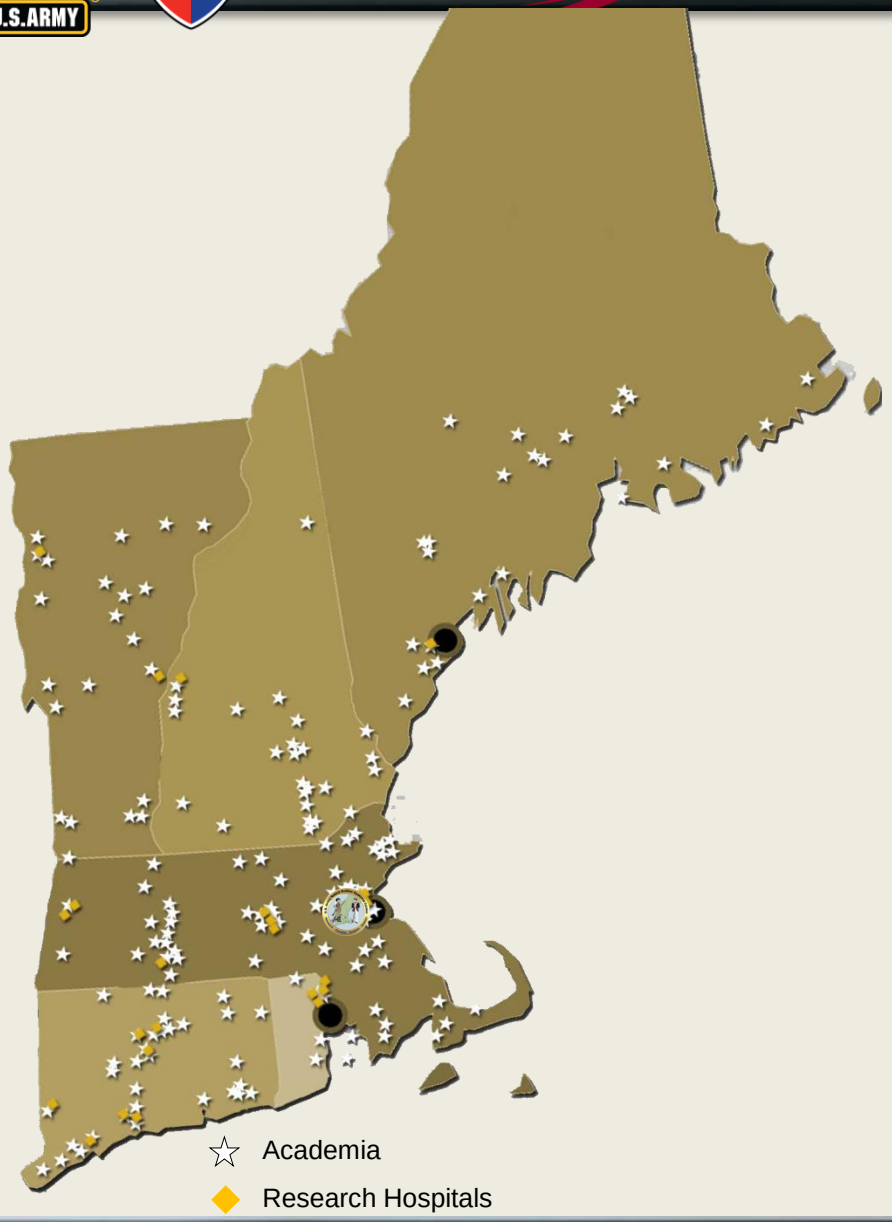
- Base Camp Integration Lab
- Environmental Chambers
  - Doriot Climatic Chambers
  - Altitude Chamber
  - Hydro-Environmental Chamber
- Soldier Performance Science Center
  - Biomechanics Lab
  - 3-D Anthropometric Lab
  - CIE Fightability Course
- Bone Health Lab
- Materials Science Laboratory
- Camouflage Analysis & Demo Lab
- Soldier System Prototype Design and Fabrication Facility
- DoD Combat Feeding Laboratory
- Airdrop Certification Test Facility
- Fiber Production and Research Facility
- Textile Testing Facilities
- Thermal Test Facility
- High Performance Fiber Facility
- Polymer Film Center of Excellence

Resources

- Employees: 1498 (+/-) consisting of:
  - 1188 Civilian, 90 Military and 220 Contractors
- Education: 1,179 Degrees
  - Over 70 Disciplines from Aerospace to Zoology
- Gross Payroll and Benefits $232M
- Bottom-line Annual Budgets $896M
- Research & Development/Acquisition Activities Expenditures $1.6B*
- Local Economic Impact of $4.4B*

*UMASS Donahue Institute, An Economic Contribution Analysis and Overview of Massachusetts Military Installations June 2012

Local Technology Partners



Massachusetts Ranked #1 for Science & Technology
2004, 2008, 2010, 2012, 2014
Milken Institute

Massachusetts Ranked #2 for Total R&D Expenditures 2009/2010
National Science Foundation

Massachusetts 1 of 6 Leading Technology States 2010
US Census

Hundreds of S&T Partners in New England Including:

- BAE Systems
- Draper Laboratory
- Fosta-Tek Optics, Inc.
- Hanscom Air Force Base
- John Adams Innovation Institute
- Kaman Aerospace
- Lilliputian Systems, Inc.
- Lincoln Labs
- Mass Executive Office of Public Safety and Security
- Massachusetts High Technology Council
- Metabolix, Inc .
- Naval Undersea Warfare Center
- New England Ropes, Inc.
- New Hampshire High Technology Council
- Niche, Inc.
- Pascale Industries, Inc.
- Polartec, LLC
- Qinetiq North America
- Triton Systems, Inc.

Outreach and Partnering

- **Science and Technology Board –** A network of NSSC and Senior Representatives from the Greater MA Community (DoD, multi-government, industry, and academic leaders) creating opportunities through co-sponsored initiatives with shared goals
- **HEROES - Harnessing Emerging Research Opportunities to Empower Soldiers -** A Joint Research Innovation Institute combining the intellectual resources of NSRDEC and UMass-Lowell
- **Institute for Soldier Nanotechnology at MIT -** An RDECOM funded University Affiliated Research Center (UARC) that teams MIT, Army, and industry partners to discover nano-technologies that will dramatically advance Soldier capabilities.
- **Science, Technology, Engineering and Mathematics (STEM)** – Multiple activities including - Science Fairs, Robotics Competitions and GEMS (Gains in the Advancement of Mathematics and Science) Camp.

Being a Good Neighbor

- Only Army Active Duty Installation in New England
- NSSC family is very involved in their local communities
- Academia
  - High School Programs: STEM, GEM
  - Undergrad/Grad Programs: SMART
- Science and Technology Board
- Warrior Transition
- Environmental
  - Lake Cochituate Clean-up
  - Green Facilities Research:
    - Water Reclamation
    - Solar Power development

Lego Robots

Soldiers are the Centerpiece