U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND – ARMY RESEARCH LABORATORY

Open Campus: Accelerating Innovation and Discovery at ARL and Beyond

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THE ARMY’S CORPORATE RESEARCH LAB
CCDC ARL

Foundational research to drive change - new paradigms, new ideas, new innovations within, across & between disciplines

Knowledge products for warfighting concepts development & Future Operating Environment via close collaboration with FCC

The Army’s “Face” to Universities
Driving change via close collaboration:
ARL Open Campus
Army Research Office

Technology Forecasting Model
Started in FY14 to link ARL with the global research community; partners and ARL S&Es working side-by-side in research facilities.

Collaborations focused on Army-specific challenges of mutual importance to all partners

Partners from Army, Industry and Academia engage in research with shared access to people, infrastructure and resources

Expanded S&T Research Ecosystem

ARMY RESEARCH LABORATORY

ARL Open Campus is “a role model to the broader defense research enterprise”

- Defense Science Board (DSB) Task Force on Defense Research Enterprise Assessment, January 2017

Army Benefits as of February 2019:

$43.5M in-kind research

$118.5M in-kind research since Open Campus start

180 Active CRADAs

80 CRADAs with Academia

100 CRADAs with Industry

250+ CRADAs projects

115 CRADAs projects in Negotiation

>700 visiting researchers

22 different nations
Open Campus Initiative: Reduce Barriers to Collaboration or Risk Being Left Behind

- Less bureaucracy and paperwork
- Open areas for researchers and access to existing facilities
- Collaboration between ARL and external scientists
- Virtual research centers
- Career path for students and scientists
- Hub and spoke Model
- Collaborator presence through EUL
- Novel staff opportunities

An enhanced defense research environment that fosters discovery and innovation through collaboration on foundational research.
ARL IS THE ARMY’S “FACE” TO THE WORLD-WIDE ACADEMIC COMMUNITY

ARL Central
Chicago, IL

ARL South
Austin, TX

ARL West
Playa Vista, CA

ARL North East
Boston, MA

ARL - Aberdeen Proving Ground

ARL - Adelphi Laboratory Center (Headquarters)

ARL- White Sands Missile Range

ARO-Central

ARO-London
co-located with CFEC-ATLANTIC

ARO-Tokyo
co-located with CFEC-PACIFIC

ARO-Brazil
co-located with CFEC-AMERICAS

ARL- ARO- RTP, NC

ARL South

ARL Global Network for Foundational Research
LEVERAGING AUTHORITIES

10 USC Chapter 81 Note - Eliminated the sunset clause for direct hire of candidates possessing an advanced degree authorized in the FY09 NDAA (2% cap) & amended by FY11 NDAA (5% CAP) & scheduled to expire on Dec 31, 2013.

FY16 NDAA, Section 1109 – Intended to shape the workforce in the most cost effective and efficient manner, enhance the scientific quality, and reduce the average unit cost of the workforce. The pilot authorizes the STRLs to (a) use a renewable 6yr term appt authority for S&E hires and changes the way these appointees are counted against full time equivalents (FTEs); (b) gives the STRL director the ability to determine a reduction in pay of reemployed annuitants; and (c) authorizes VERA/VSSIP authority to the STRL director. These authorities expire 12/31/23.

FY17 NDAA, Section 211 – Established the Laboratory Quality Enhancement Program (LQEP)

FY17 NDAA, Section 233 - Pilot Program for Enhancement of Research Development Test and Evaluation Centers instills paradigm shifting management opportunities at DoD STRLs

10 USC §2358a - Replaces Sec. 1107 of the FY14 NDAA and has several provisions: (a) direct hire authority for bachelor degree candidates up to 6%; (b) direct hiring authority for veteran candidates up to 3%; (c) direct hire for students up to 10%; (d) Senior Scientific Technical Managers up to 2%; and (e) excluded STRLs from personnel limitations.

10 USC §2363 - Mechanism to Provide Funds to fund the repair or minor military construction of the laboratory infrastructure and equipment

10 USC §2358 - $150 M per year of RDTE dollars can be utilized to fund a MILCON project at a DoD STRL

10 USC §2805(d) – UMMCA Up to $6 M (Laboratory Revitalization) vs $4M

10 USC §2811 – Repair Up to $7.5 M
# METRICS – THE VALUE PROPOSITION

**Beneficial to all parties**

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<th>Type of Payoff</th>
<th>ARL</th>
<th>Partner</th>
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| **Tangible** (definable monetary value) | • New funded programs  
• Access to unique partner facilities  
• Leveraged partner research  
• Ability to attract private capital  
• Access to senior Government leaders | • Funding students, postdocs, staff  
• New equipment, supplies |
| **Intangible** (no definable monetary value) | • Improved agility to move into new research areas  
• New connections  
• Joint publications  
• Access to broader intellectual base  
• Early access to new partner discoveries  
• New employees  
• Hire more effectively into difficult areas  
• Teaching opportunities for ARL staff | • Access to Army problems & priorities  
• ARL Staff as teachers  
• Paths for student employment |
• Revitalization and Leveraging Authorities
  – Tools to Facilitate Innovation

• Building Partnerships
  – Finding the Right Partners
  – Reducing Barriers to Establish Relationship
  – Using State & Local Government as well as Partnership Intermediary Agreements to Expand Your Ecosystem

• Value Proposition
  – Not the Same Value to Each but Beneficial to All Parties

www.arl.army.mil/opencampus