



**U.S. ARMY**  
**RDECOM**

# U.S. Army RDECOM - Atlantic

Basic and Applied Research Collaboration  
Overview

**Jennifer Becker**  
**B&AR Team Lead**  
**RDECOM-Atlantic**  
**[Jennifer.j.becker.civ@mail.mil](mailto:Jennifer.j.becker.civ@mail.mil)**



U.S. ARMY  
**RDECOM**

# What RDECOM Does



## ARMY RESEARCH LABORATORY

## ARMAMENTS

## AVIATION AND MISSILE

## COMMUNICATIONS-ELECTRONICS

## EDGEWOOD, CHEMICAL BIOLOGICAL CENTER

## NATICK SOLDIER

## TANK AUTOMOTIVE

- Extramural Basic Research
- Computational Sciences
- Materials Research
- Sciences-for-Maneuver
- Information Sciences
- Sciences for Lethality and Protection
- Human Sciences
- Assessment & Analysis
- Advanced Computing & Big Data
- Agile Manufacturing
- Synthetic Biology

- Munitions Systems & Technologies
- Integrated Weapon Systems
- Energetics, Warheads & Manufacturing
- Guidance, Navigation & Control
- Fuze & Precision Armament Technology
- Cross Domain Fires

- Airframe Structures
- Rotors & Rotor Systems
- Sensors and Seekers
- Guidance, Navigation, and Control
- Propulsion
- Counter-UAS
- Visualization
- Anti-Access/Area Denial
- Missile Defense

- Mission Command
- Tactical and Deployed Power
- Tactical Cyberspace Operations
- Electronic Warfare
- Intelligence, Surveillance, Reconnaissance and Targeting
- Network
- Prioritize Position Navigation and Timing (PNT)

- Chemistry and Biological Sciences
- CB Agent Handling and Surety
- CBRNE Materiel Acquisition
- CBRNE Analysis and Testing
- CBRNE Munitions and Field Operations

- Advanced/Multifunctional Materials
- Biomechanics
- Cognitive & Behavioral Sciences
- Food Science
- Geographic/Precision Guided Systems
- Soldier Performance Optimization
- Biological Technology
- Neuro-cognition

- Ground Vehicle Survivability
- Autonomy-Enabled Systems
- Vehicle Electronic Architecture
- Ground System Software
- Ground Vehicle Power & Mobility
- Robotics/Autonomous Systems
- Combat Vehicles
- Advanced Protection Systems

Delivering capabilities for the Army, joint warfighters, and our Nation



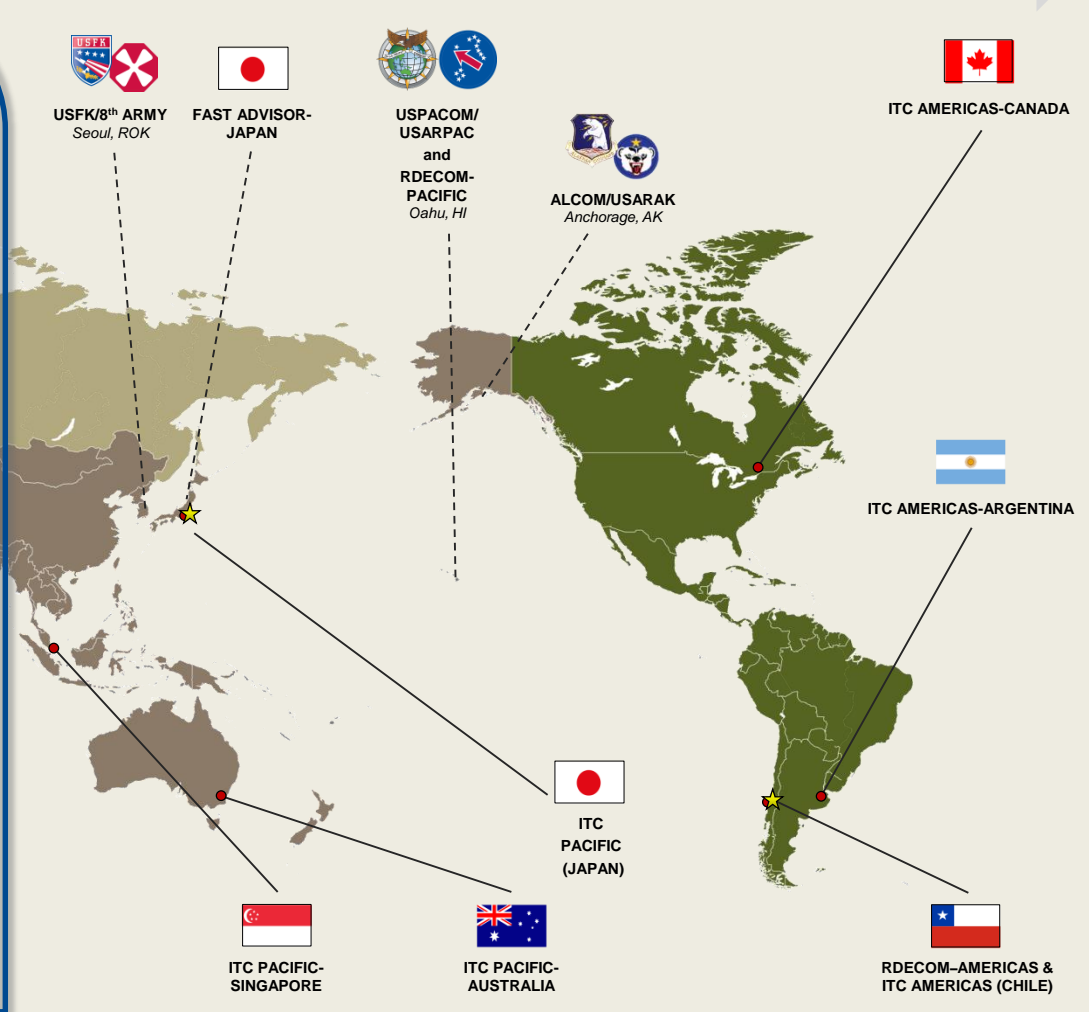
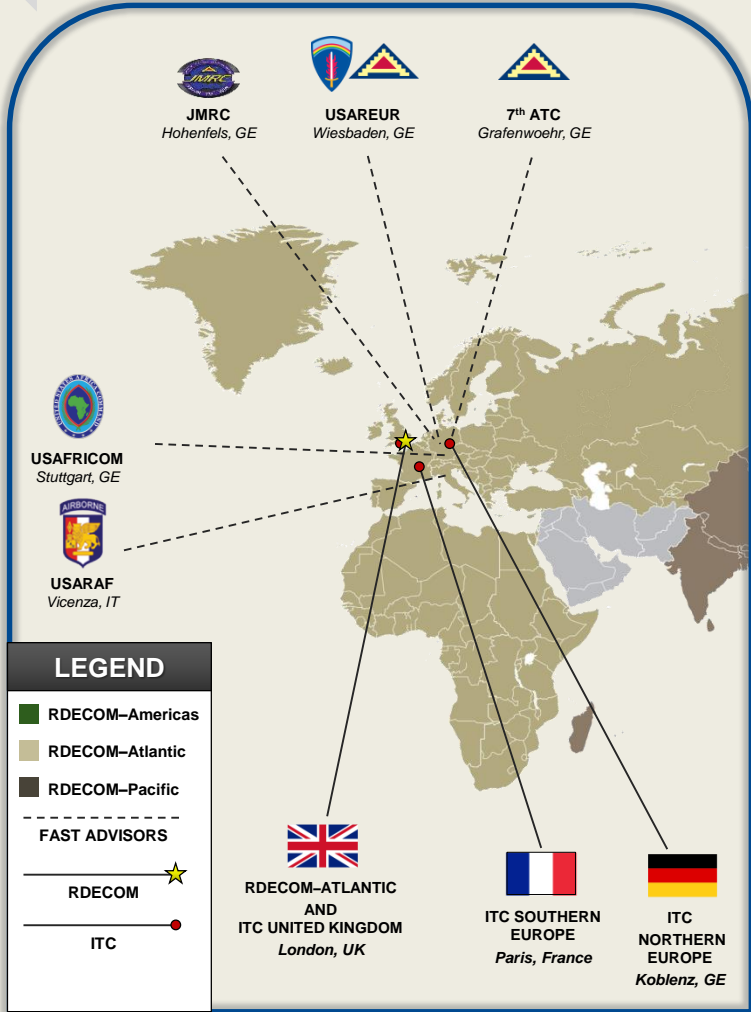
U.S. ARMY  
**RDECOM**

# Where RDECOM Is Internationally

## Technology Search

## Engagement

## Warfighter Support



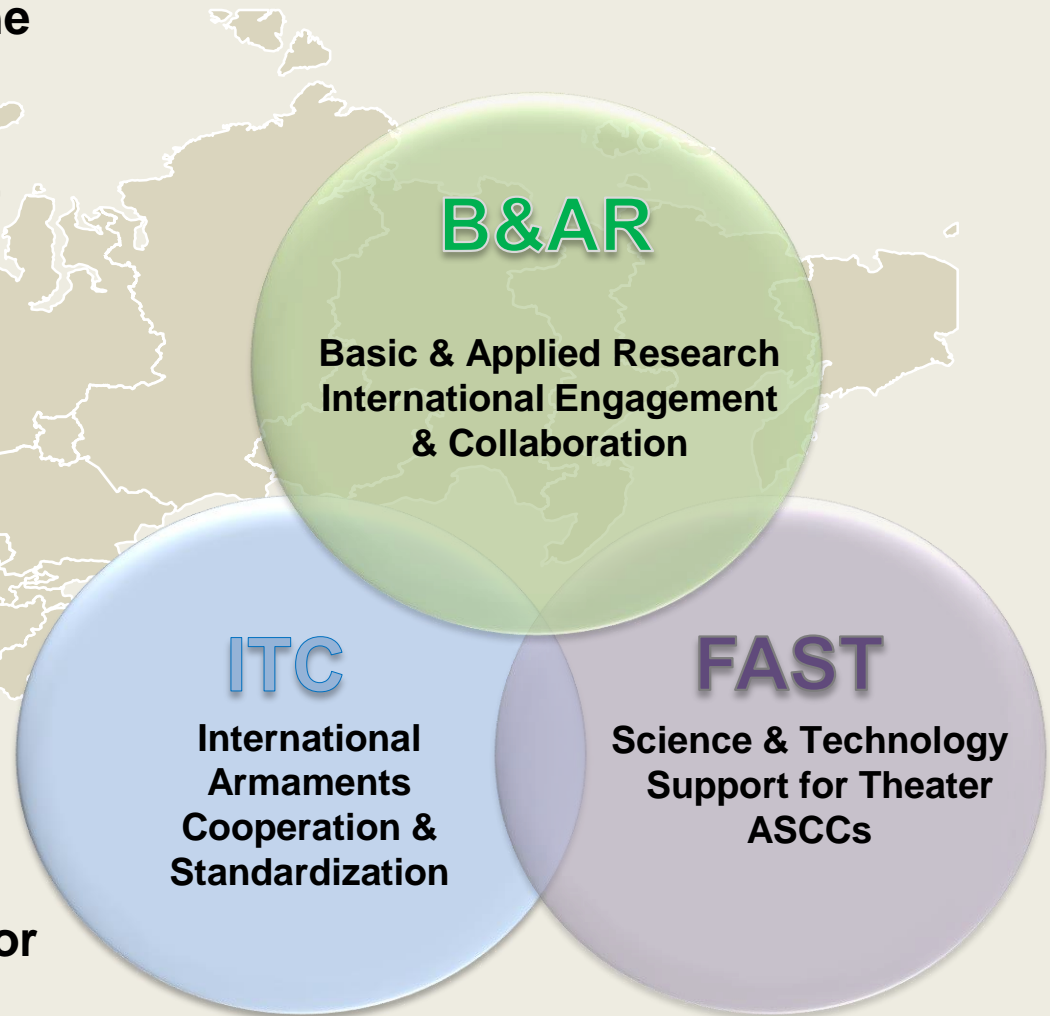
Driving innovation around the world with our allies and partners



U.S. ARMY  
**RDECOM**

# What RDECOM Atlantic Does

- Conduct outreach on behalf of the Army S&T enterprise
- Identify opportunities of state-of-the-art and newly emerging S&T across the global spectrum
- Identify priority areas and mechanisms for research exchange and collaboration
- Foster relationships and shape research from a global perspective, avoid technological surprise
- Invest to develop opportunities for cooperation



*RDECOM-ATL continues to maintain and build relationships with our strongest allied partners.*



U.S. ARMY  
**RDECOM**

# Basic Research Mission

## B&AR

Basic & Applied Research Discovery -  
International Engagement  
& Collaboration

---

- Extramural Basic and Applied Research Overseas
- Research Grants to Academic Institutions
- Grants to support Academic & Scientific Forums
- Grants to fund Foreign expert travel for collaboration with Army Labs & Centers

### Goals:

- Innovative Basic Research & Scientific Discovery
- Collaborative Research with world's best scientists
- Build / maintain relationships with the international scientific community

### Initiatives:

- Outreach to Academia
  - University Visits
  - Participate in Academic and Scientific Professional Symposia
- Grants to support innovative research, scientific conferences, and collaborative research with US Labs and Research Centers
- Seek US Joint-Service international S&T collaborative engagement opportunities



U.S. ARMY  
**RDECOM**

# Technical Areas of Interest

- Chemistry
- Physics
- Life Sciences
- Network Science
- Environmental Sciences
- Human Sciences
- Electronics
- Materials Sciences (structural, electronic, photonic)
- Mechanical Sciences
- Mathematics
- Computing Science
- Energy and Power Technologies
- Aeronautics
- Robotics and Autonomous Systems
- Sensors
- Nanotechnology
- Lasers and Electro-Optics
- Energetic Materials
- Information Technology
- Quantum Sciences
- Synthetic Biology

U.S. ARMY  
**RDECOM**

# Broad Agency Announcements

<http://www.arl.army.mil/www/default.cfm?page=8>

- W911NF-17-S-0002 ARO Broad Agency Announcement (BAA) for Basic and Applied Scientific Research for Fiscal Years 2017 through 2022 <http://www.arl.army.mil/www/pages/8/W911NF-17-S-0002.pdf>
  - High risk, revolutionary basic research
- W911NF-17-S-0003 ARL Broad Agency Announcement (BAA) for Basic and Applied Scientific Research for Fiscal Years 2017 through 2022 <http://www.arl.army.mil/www/pages/8/W911NF-17-S-0003.pdf>
  - Basic and Applied Army relevant research



U.S. ARMY  
**RDECOM**

# Collaboration Opportunities

- **Grants**

- Seed projects exploring innovative basic research concepts
- Focused research projects addressing specific science and technology challenges
- Collaborative research projects with US Army scientists and engineers

**\$25K for 6 months up to \$350K over 3 years**





U.S. ARMY  
**RDECOM**

# Collaboration Opportunities

- **Conference/workshop support**

- Unique, focused, technical workshops and conferences
- \$3-5K to help support participant travel and conference costs (budget cannot include costs for banquets, refreshments, social functions, entertainment etc)

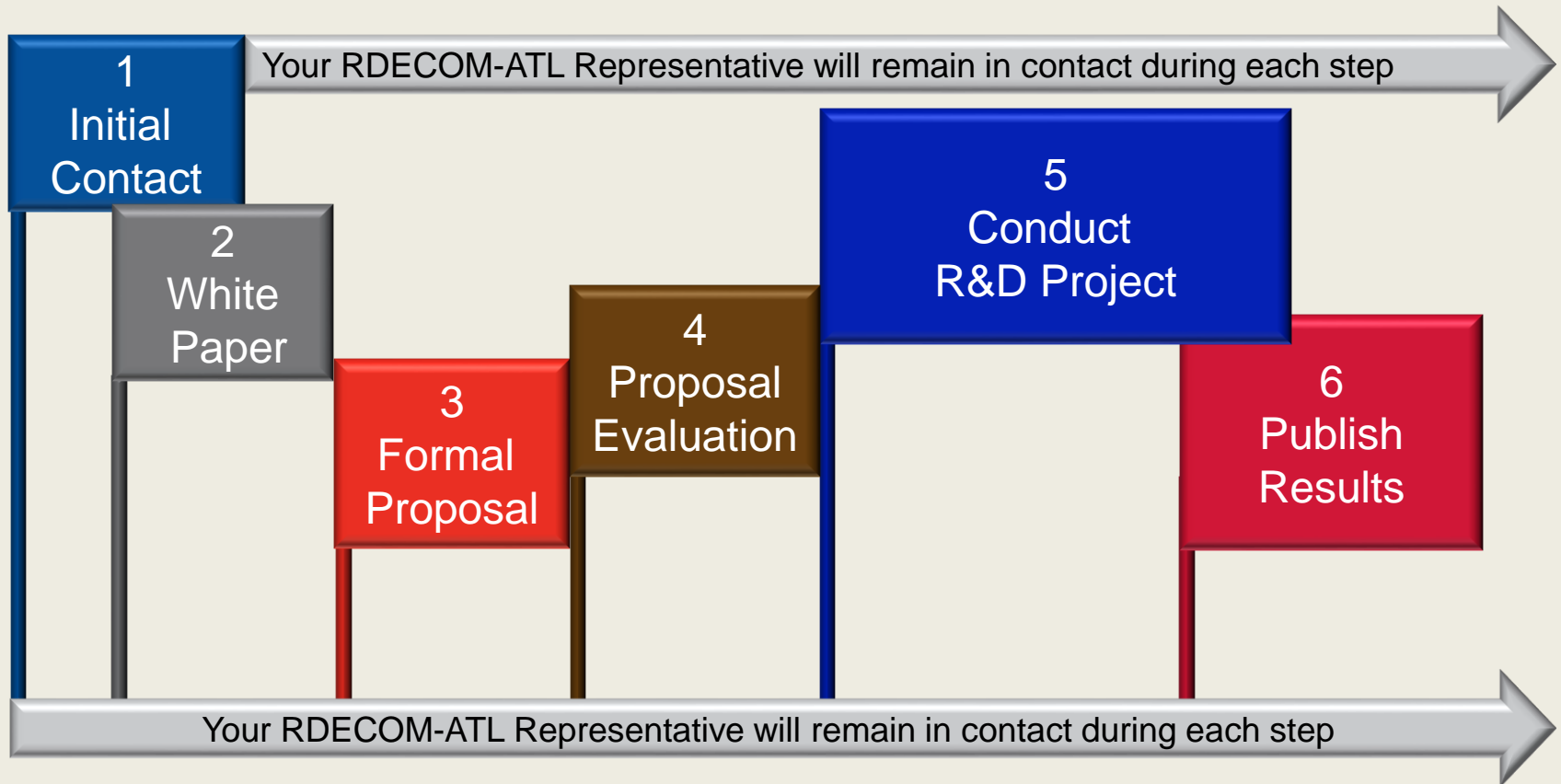
- **Visiting Scientist/Subject Matter Expert travel**

- International SME travel to US Army Labs/Centers
- \$1-3K for travel to US Army Labs/centers for collaborative research discussions and planning

U.S. ARMY  
**RDECOM**

# Proposal Process

## How to Participate



Timeline depends on multiple factors.

Read more about this process and get examples online at <http://www.rdecom.army.mil/rfecatl/>



U.S. ARMY  
**RDECOM**

# Intellectual Property

- **Who retains the Intellectual Property rights?**
  - You, the researcher, and/or University
  - The proposal should identify any sensitive or intellectual property restrictions
- **What does the US Government get from my research?**
  - Government Purpose Rights (non-exclusive/non-commercial use of the IP)
  - International research collaboration
  - New relationships with top researchers in key areas to support US Government priorities and strategies
- **Can the Results be Published?**
  - It is encouraged to publish your results in an open, peer-reviewed journal, magazine, or other publication
  - The US Government can collaborate throughout the research activities to co-author publications with you



# Contact Us



RDECOM – Atlantic  
London, United Kingdom

<http://www.rdecom.army.mil/rfecat/>

BAA at

<http://www.arl.army.mil/www/default.cfm?page=8>



European Office of Aerospace Research and  
Development (EOARD)

[eoard.orgbox@us.af.mil](mailto:eoard.orgbox@us.af.mil)

<http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=16662/>



Office of Naval Research – Global (ONR-G)  
London, United Kingdom

[ONRG.london@mail.mil](mailto:ONRG.london@mail.mil)

<http://www.onr.navy.mil/en/Science-Technology/ONR-Global.aspx>



Engineer Research & Development Center (ERDC)  
International Research Office (IRO)

<http://www.erd.usace.army.mil/Media/FactSheets/FactSheetArticleView/tabid/9254/Article/476750/international-research-office.aspx>