



Funding Opportunities in Basic Research through US DOD

**US OFFICE OF NAVAL RESEARCH
DR. SCOTT WALPER, SCIENCE DIRECTOR, SYNTHETIC BIOLOGY**

**ARMY FUTURES COMMAND - FORWARD ELEMENT ATLANTIC
DR. JONATHON BRAME , BASIC AND APPLIED RESEARCH TEAM LEAD**

DEVCOM RESEARCH CENTERS



Armaments Center

Picatinny Arsenal, NJ

Army Research Lab

Adelphi, MD

Aviation & Missile Center

Redstone Arsenal, AL

Chemical Biological Center

Aberdeen Proving Ground, MD

C5ISR Center

Aberdeen Proving Ground, MD

Data Analysis Center

Aberdeen Proving Ground, MD

Ground Vehicle Systems Center

Warren, MI

Soldier Center

Natick, MA

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

- 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

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

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

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

- Certified Item Level Performance Data
- Models, Simulations, & Tools
- Life-Cycle Systems Analysis
- Vulnerability / Lethality Technical Analysis
- Soldier-Centered Performance Design Analysis

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

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



Office of Naval Research GLOBAL

Mission: Obtain, coordinate & make available worldwide scientific Information

Vision: Be the partner of choice for S&T Leaders



Experimentation & Analysis

Experimentation and Analysis – “Hub for Experimentation” conducting Technology Operational Experimentation Events (TOEE) and injecting technologies into Fleet exercises, providing decision-quality data to support S&T investment

TechSolutions

TechSolutions – Rapid response S&T solutions to immediate needs identified by warfighters at the deck-plate level; Deliver advanced technology prototypes for high-impact near-term needs within a goal of 12 months



International Science

International Science – 24 Science Directors shepherding fundamentally novel research worldwide, providing PhD-level Global Technical Awareness (GTA), building partnerships with leading international scientists and connecting them back to NR&DE



Science Advisors

Science Advisors – 23 Science Advisors; embedded within Fleet/Force Commands who prioritize S&T requirements, provide capability solutions, lead experimentation events, and connect warfighters to technologically advanced capabilities.



Focused on delivering technology to Sailors and Marines, ONRG links the NRE across the Globe to advance scientific knowledge and technology

International Engagement

International Engagement – 7 Country Directors developing and supporting MII-MII bilateral/multilateral relationships promoting RDT&E collaboration, expanding naval capability, capacity and interchangeability



Foreign Comparative Test

Foreign Comparative Test – Leads all Navy and Marine Corps FCT capabilities; seeks faster transition of capability, cost avoidance, cost savings; Leveraging SA's and SD's to find international capabilities and SA's to connect to fleet and programs



London Tech Bridge

London Tech Bridge – a collaboration between the U.S. Navy and Royal Navy to foster connectivity, agility, and innovation. Supporting the goals between the two navies as they endeavor to advance from interoperability to interchangeability.



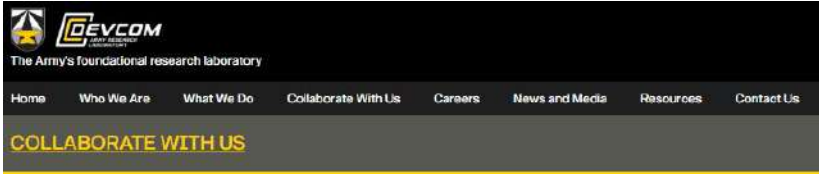


BROAD AGENCY ANNOUNCEMENTS – OPEN CALLS FOR PROPOSALS



ARL Broad Agency Announcement (BAA) – DEVCOM Army Research Laboratory

ONR Broad Agency Announcement



ARL BROAD AGENCY ANNOUNCEMENT (BAA)

The DEVCOM ARL Broad Agency Announcement (BAA) is a competitive solicitation procedure used to obtain proposals for basic and applied research that support ARL's mission. Eligible entities include institutions of higher education, nonprofit organizations, state and local governments, foreign organizations, foreign public entities, and for-profit organizations (i.e. large and small businesses). The BAA is the primary mechanism for DEVCOM ARL to award assistance agreements (grants and cooperative agreements) and can be used to award contracts and other transactions (OTs).

ARL's mission is to operationalize science for transformational overmatch. The lab operationalizes science by purposefully partnering across our value system to deliver to the Army fundamentally advantageous change. Proposals are sought across many disciplines through this BAA for cutting-edge innovative research to produce discoveries that would have a significant impact on enabling new and improved Army operational capabilities and related technologies.

FY25 LONG RANGE BROAD AGENCY ANNOUNCEMENT (BAA) FOR NAVY AND MARINE CORPS SCIENCE AND TECHNOLOGY N0001425B001

This publication constitutes a Broad Agency Announcement (BAA) for awards by the Office of Naval Research (ONR) Contact and Grants Awards Management Division, ONR Code 25 (or others approved by Code 25), ONR Global (ONRG) and the Marine Corps Warfighting Lab (MCWL), as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016 and by the Office of the Under Secretary of Defense for Acquisition and Sustainment Guide to Research Other Transactions Under 10 U.S.C. 4021 (JUN 2023) and the Other Transaction Guide version 2.0 dated July 2023.

It also constitutes a merit-based, competitive procedure, in accordance with the Department of Defense Grant and Agreement Regulations (DoDGARS), at 32 CFR 22.315(a). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued. Unless indicated otherwise, any references to ONR within the BAA refers to ONR, ONRG and MCWL.

Please see full text of the announcement for additional information.

[N0001425SB001.pdf](#) (791.42 KB)

[N0001425SB001_Amendment 0001.pdf](#) (791.34 KB)

Published: October 01, 2024 1:55 PM EST

Full Proposals will be accepted until: September 30, 2025 2:00 PM EST

BROWSE CURRENT BAA TOPICS

DOWNLOAD ALL BAA TOPICS AS PDF

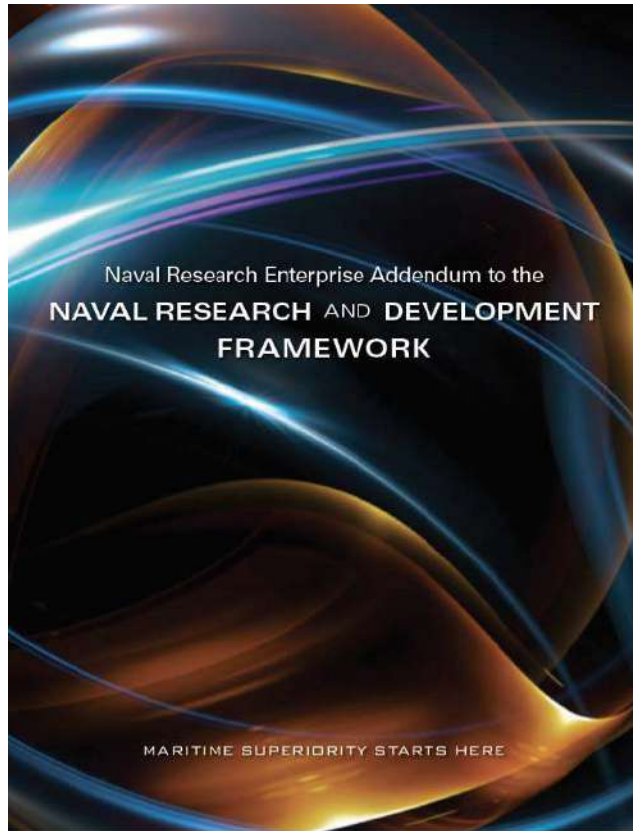
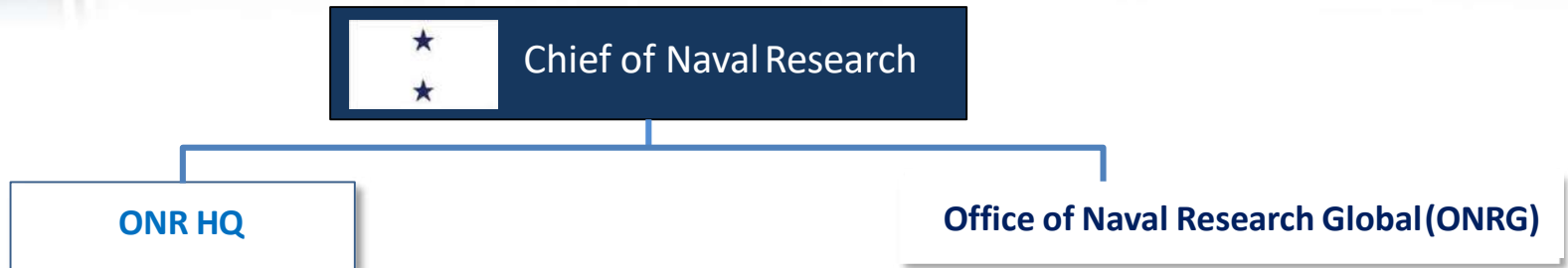
ARMY: TECHNICAL AREAS OF INTEREST



- Biological Sciences
- Chemistry
- Computer Science
- Data Sciences and Informatics
- Earth and Environmental Sciences
- Economics
- Education
- Electronics
- Materials Science
- Mathematics and Statistics
- Mechanics
- Network Science
- Physics
- Social Science



ONR Focus Areas



Focus Areas:

1. **Autonomy/ AI**
2. Naval Aerospace
3. Directed Energy & Kinetics
4. C5ISR/ Naval Space
5. **Human & Biological Systems**
6. **Manufacturing**
7. **Materials**
8. Naval Engineering
9. **Ocean, Atmosphere, & Space**
10. **Power & Energy**
11. **Undersea Systems**



Collaboration Opportunities



Research Grants

- Cooperative Agreements and/or Grants
- Relevant to BAA technical focus areas
- Seed projects or focused research
- Collaborative research w/ US Army/Navy Labs/Centers

Avg of \$60k/yr*
6 mon - 3 yrs

Visiting Science Program

- Travel grant
- Travel to a US Navy/Army Lab or Center to collaborate/plan
- Subject Matter Expert exchange

\$3-5k
Single trip

Collaborative Science Program

- Small, scientifically focused
- Workshops, seminars, conferences



\$5-15k
Single event

Foreign Comparative Testing

- Applied research efforts
- Innovation challenges
- Procurement & assessment of foreign technology by U.S. Navy Lab/Center

GlobalX / xTech Challenges

- Multi-national challenge
- Specific topic of interest
- Finite submission timeline
- Larger financial support and/or prize money

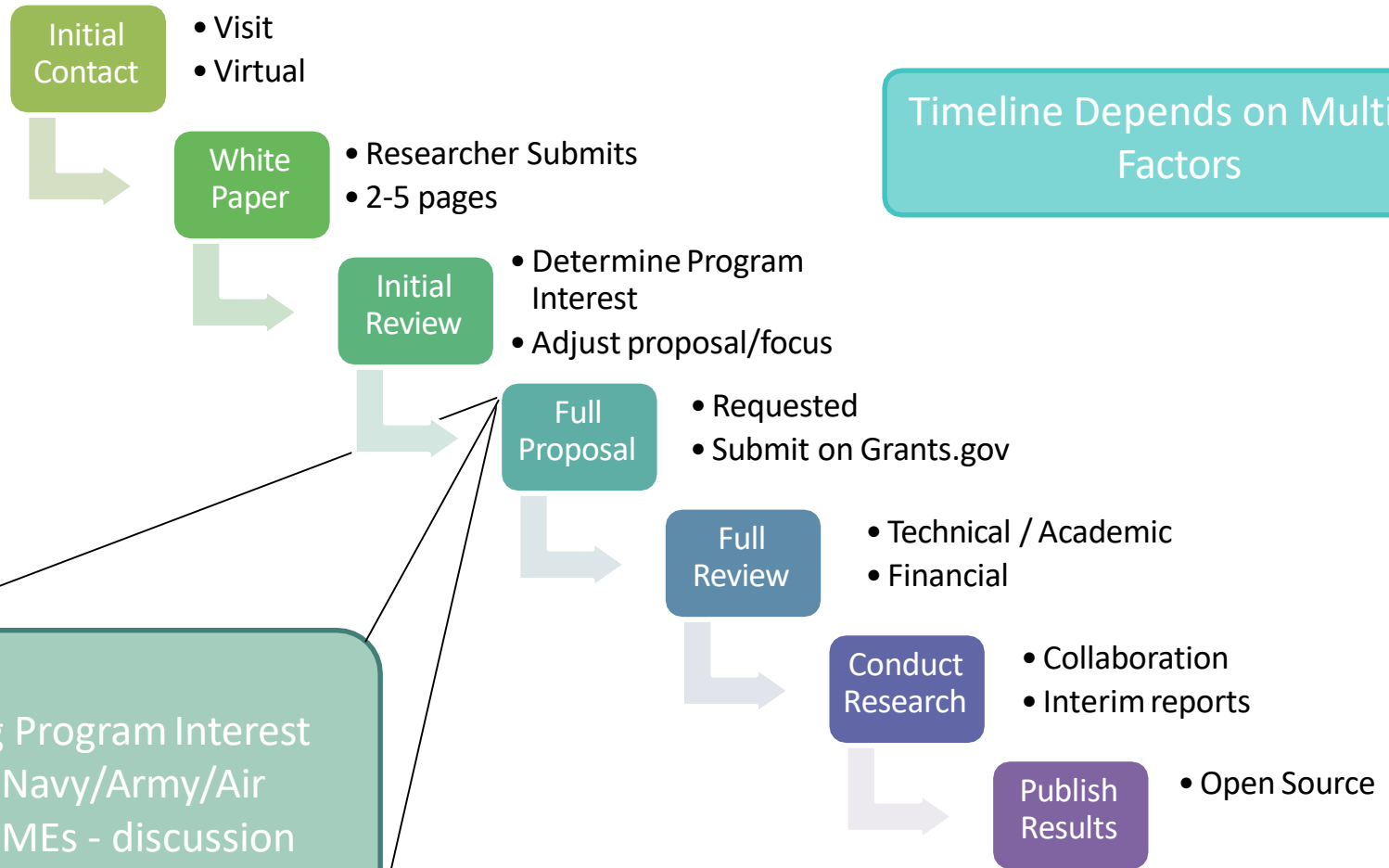
\$100-750K
6-12 mon

*co-funding with other organizations can provide additional funds

Small early investments can lead to significant results

For detailed information about our current research interests and our grant programs, please look at our websites:
<https://www.nre.navy.mil/organization/onr-global> (describes ONR Global, including grant programs)

Proposal Process



Timeline Depends on Multiple Factors

Pending Program Interest from Navy/Army/Air Force SMEs - discussion prior to requesting Full Proposal



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 U.S. Government priorities and strategies
- **Can the Results be Published?**
 - DEVCOM-Atlantic encourages you to publish your results in an open, peer-reviewed journal, magazine, or other publication
 - The U.S. Government can collaborate throughout the research activities to co-author publications with you

Only if a paper is co-authored with a U.S. GOV employee is it subject to an internal review process prior to clearance for publication

CONTACT US



U.S. ARMY

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eoard.orgbox@us.af.mil
<https://community.apan.org/wg/afosr/w/researchareas/11156/european-office-of-aerospace-research-and-development/>



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>



Office of Naval Research – Global (ONR-G)
London, United Kingdom
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<https://www.onr.navy.mil/en/Science-Technology/ONR-Global>



BACKUP MATERIAL

CRITICAL QUESTIONS TO CONSIDER WHEN PITCHING IDEAS



Is it basic research?

- What's the scientific question?
- What foundational knowledge is not currently available about the workings of the universe?
- Proposals focused on specific devices/components/technologies are beyond the scope of ARO's mission.

Is it hard?

- If an "old" question, why haven't we found an answer yet?
- If a "new" question, where's the sticky part?

Why you? Why now?

- What's been done before? Why wasn't it successful?
- What's novel about your skills/abilities/approach that makes you think there's a shot at an answer?
- What new advance provides opportunity to make new progress?

So what? Who cares?

- What impact will the research make on the scientific community?
- What papers will be written because of your efforts? What papers will stop being written?
- What are the potential implications for the future of technology?

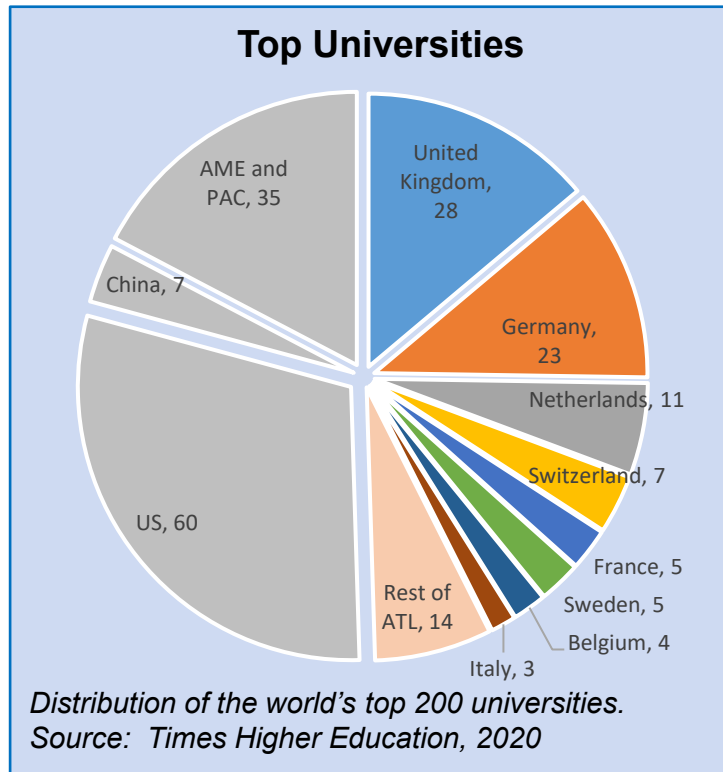
Where's the risk?

- How confident are you that you're asking the right question?
- How will you know when you have an answer? If you find a different answer, will you still learn something?

What will it take?

- What resources (time, money, infrastructure, personnel, partnerships) are required to pursue the research?

BASIC & APPLIED RESEARCH (B&AR)



B&AR Collaboration Tools

- **Research Projects: Grants & Cooperative Agreements**
 - Seed projects or focused research
 - Collaborative research w/ US Army Labs/Centers
- **Conference/Workshop support**
- **Visiting Scientist Program / Subject Matter Expert Travel**

DEVCOM ATL B&AR

- Conduct outreach on behalf of the Army S&T enterprise
- Promote awareness 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 invest to develop opportunities for cooperation

Awareness —————

Engagement —————

Relationships



US Army Corps of Engineers.

