WELCOME!

Parallax ADVANCED RESEARCH + Ohio Federal Research Network — Driving Innovation Through Strategic Partnerships

Join us for

Ohio Federal Research Network (OFRN)
Opportunity Days: Autonomy

Free Virtual Event   January 23 | 9:00 - 10:40 AM (ET)

TACTICAL BEHAVIORS FOR AUTONOMOUS MANEUVER COLLABORATIVE RESEARCH PROGRAM (TBAM-CRP)

Funding Opportunity #: W911NF-22-S-0011

- **Who**
  - U.S. Army Research Laboratory
  - *Eligibility*: higher education, nonprofit organizations, and for-profit organization

- **What**
  - The type of solicitation: Grant

- **When**
  - Cycle 2 Released: March 20, 2024, Submission deadline has passed
  - Five new topics (Cycles 1-5) are expected in FY22, 24, **26, 28, and 30**. Each topic will be carefully chosen based on the previous accomplishments in the prior cycle(s), the development of new technologies and capabilities in the broader research and development communities, and the Army's evolving needs for future capabilities.

Anticipated Core Funding Cycles:

Proposal	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
Cycle 1	X	X								
Cycle 2			X	X	*	*				
Cycle 3					X	X	*	*		
Cycle 4							X	X	*	*
Cycle 5									X	x

- **Where**
  - Webpage: https://www.grants.gov/search-results-detail/339728
  - Contact information:
  - Contract Specialist: Christopher D Justice
  - usarmy.adelphi.devcom-arl.mbx.tbam-crp-questions@army.mil

- **Why**
  - *Funding*
  - Multiple Awards funded to $2.1 M per year
    - Floor: $100,000
    - Ceiling: $2,100,000
  - *Technical*
    - The U.S. Army is focusing on developing robotics and autonomous systems to enhance future battlefield operations, particularly in complex multi-domain environments against advanced adversaries. TBAM led by the Army Research Laboratory is focused on creating and testing coordinated tactics for small groups of autonomous agents. These systems will need to operate autonomously and collaboratively in dynamic, uncertain conditions, while adapting to disruptions such as communication or positioning failures.

BEACON FOR ASSURED LANDING LOCATION PRECISION LANDING FOR UAS

Solicitation #A254-009

- **Who**
- Army Applications Laboratory (AAL)
- *Eligibility*: Small businesses primarily U.S. owned, and work performed in U.S.

- **What**
  - The type of solicitation: Direct to Phase II SBIR project

- **When**
  - Opened: January 8, 2025
  - Due: 12:00 PM ET February 5, 2025

- **Where**
  - Webpage: https://aal.mil/ball/#problem
  - Contact information:
  - FAQ Webpage: https://aal.mil/assets/files/pdf/faq-webinar-slides-ball.pdf

- **Why**
  - *Funding*
  - One award
  - $1.6 M for 18-month period
    - *Technical*
    - AAL is seeking a company to create and implement a system that improves the precision of automated drone landings on unmanned platforms or designated locations in urban or challenging environments autonomously, without requiring human intervention.
    - DP2 proposals should refine the preliminary design proposed in the solicitation response and create TRL 6 prototype and operational demonstration for evaluation

AI/ML-Enabled Voice-Commanded Autonomous Maneuver for Ground Combat Vehicles

Topic # A254-008

- **Who**
- U.S. Army
- *Eligibility*: Small businesses primarily U.S. owned, and work performed in U.S.

- **What**
  - The type of solicitation: Direct to Phase II SBIR project

- **When**
  - Released: December 04, 2024
  - Due: 12:00 PM ET February 5, 2025

- **Where**
  - Webpages:
  - https://www.dodsbirsttr.mil/submissions/api/public/download/solicitationDocuments?solicitation=DOD_SBIR_2025_P1_C4&release=3&documentType=RELEASE_PREFACE
  - https://www.dodsbirsttr.mil/topics-app/?baa=DOD_SBIR_2025_P1_C4
  - Contact information:
  - Technical Questions: Q&A webpage: https://www.dodsbirsttr.mil/topics-app/

- **Why**
  - *Funding*
  - One award: $2 M for 18-month period
    - *Technical*
    - Develop a prototype system enabling a combat vehicle to perform basic autonomous maneuvers in response to natural language commands. These maneuvers may include tasks such as moving to known or unknown waypoints, tactical repositioning, turret operations, and coordination with other vehicles during multi-vehicle operations.

ARMY APPLICATIONS LAB BROAD AGENCY ANNOUNCEMENT FOR DISRUPTIVE APPLICATIONS

Funding Opportunity # W911NF-24-S-0008

- **Who**
  - Dept of the Army - Materiel Command
  - *Eligibility*: institutions of higher education, nonprofit organizations, state and local governments, foreign organizations, foreign public entities, and for-profit organizations

- **What**
  - The type of solicitation: Grant

- **When**
  - Released: April 5, 2024
  - Due: April 4, 2029

- **Where**
  - Webpage: https://www.grants.gov/search-results-detail/355150
  - Contact Information:
  - Technical questions: fill out contact form on AAL website https://aal.mil/contact/
  - Business or administrative questions: aal-baa@army.mil

- **Why**
  - *Funding*
    - Approx. $10,000 - $100,000 per award
    - 1000 Expected Awards
  - *Technical:*
  - Research focuses on autonomous ground and air vehicles for open, urban, and cluttered environments, requiring advanced mobility and adaptability. Key technologies include:
    - Low-profile designs
    - Rapid operator training
    - Reprogrammable platforms
    - Sensors for detecting targets.
    - Efficient propulsion

OFRN ROUND 7 OPPORTUNITY PRE-RELEASE

List of Projects:

1. Hypersonics:
2. Health and Human Performance:
3. Aerospace Power Management, Materials, and Distribution:
4. Commercial Space in Low Earth Orbit
5. Quantum Technologies
6. <mark>Autonomy</mark>
7. Advanced Materials Technology – Critical Materials Supply for Aerospace**:**

- **Where:**
  - Webpage: https://ohiofrn.org/solicitations/ohio-federal-research-network-round-7-solicitation

Contact information:

- Executive Program Manager: Mark Bartman
  - Mark.bartman@parallaxresearch.org
- Contracting Questions:
  - contracts@parallaxresearch.org
- Administrative Questions:
  - OFRN-Questions@parallaxresearch.org

- **Important Dates:**
  - Pre-release: December 27, 2024
  - Formal release: late January 2025 (tentative)
  - Solicitation Due Date: April 28, 2025 (tentative)
  - Awards Announced: July/August 2025
  - Projects Starts: October 2025

SBIR/STTR Opportunities (Autonomy)

Topic Title	Topic #	Release Date	Close Date	URL
Long Kill Chain via Secure Private Clouds	AF251-D021	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
High-efficiency, High-Performance Cross Domain Solution (CDS) for Unattended Applications	MDA251-D003	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Passive Autonomous Vulnerability Screening of Systems Outside the Accreditation Boundary	MDA251-D004	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
DIRECT TO PHASE II: Guided Wave Technology for Tank Leak Detection	N251-D05	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Enhanced Submarine Mast Detection and Discrimination	N251-014	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Passive Position Sensing and Navigation for Small Crafts and Unmanned Surface Vehicles (USVs) in Global Positioning System (GPS) Denied Environments	N251-026	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Physics-based Data Augmentation for Machine Learning (ML) Models	N251-039	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Active Scenarios Learning of Evolving Situations, Multimodal Counterfactual Reasoning, and Explanations Toward Artificial Intelligence-assisted Wargaming	N251-065	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Automated, Fast Computational Fluid Dynamics (CFD) Solver Technologies for Hypersonics	N251-060	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Artificial Intelligence for Interoperability	A25D-002	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Addressing Underrepresentation Through Data Augmentation	HR0011ST2025D-06	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Model-Agnostic Detection of Bias (MAD-Bias)	HR0011ST2025D-05	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Bias Datasets for the Department of Defense (DoD)	HR0011ST2025D-04	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Reducing the Life Cycle Cost of Automatic Target Recognition Application	N25A-T006	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Expendable Air-sea Profiling Observations in Hazardous Weather Conditions	N25A-T025	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Automatic Readiness and Training Systems Enhanced with Artificial Intelligence, Machine Learning, and Optimization	N25A-T026	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Generalizable Artificial Intelligence/Machine Learning (AI/ML) Undersea Warfare (USW) Quick-Look Tool	N251-041	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Analyzing the Trade-off Between Bias and Accuracy	HR0011ST2025D-01	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Enhancing Naval Aviation Training Through Advanced Psychological and Physiological Techniques	N25A-T005	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Battle Management / Command and Control (BM/C2)	MDA251-D007	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Live, Virtual, Constructive (LVC) Afloat: Automated Scenario Generation	N251-023	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Integrated Air & Missile Defense (IAMD) Adaptive Trainer (IAT)	N251-035	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Artificial Intelligence (AI)-Generated Domain Specific Model and Ontology	N251-030	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Mitigating Explicit and Implicit Bias Through Hybrid AI	HR0011ST2025D-02	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations

SBIR/STTR Opportunities (Autonomy)

Topic Title	Topic #	Release Date	Close Date	URL
Robotic Manipulation Learning for Repair of Marine Diesel Engines	N25A-T023	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Small unmanned aerial system low-level command system	AF251-D004	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
DIRECT TO PHASE II: Passive Acoustics Sonobuoys Intelligence and Machine Learning	N251-D01	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Resource Manager Enhancements for Automated Maritime Mission Prosecution	N251-012	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Automated Writing of Problem Reports	N251-025	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Maritime Expeditionary Response Crawler	N251-034	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Autonomous Charging and Energy Management for Large Drone Fleets	N251-053	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Autonomous Robotic Bridging	A25D-003	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Unlearning Bias	HR0011ST2025D-03	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Data Informed Software Enabled Weapons Mission Applications	AF251-D024	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Expendable Sonobuoy-Launched Unmanned Aerial Vehicle for ASW Cued Search, Detection, Tracking, and Classification	N251-016	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Autonomous Unmanned Surface Vehicle Fueling at Sea	N251-032	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Multi-sensor and Acoustic Contact Localization through Artificial Intelligence/Machine Learning	N251-047	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Sparse Data Initialization for Machine Learning Weather Prediction Models	N251-064	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Asymmetric Large Language Model Aided Cyber Effects (ALL ACES)	N251-062	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
AI/ML-Enabled Voice-Commanded Autonomous Maneuver for Ground Combat Vehicles	A254-008	4-Dec-24	5-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Artificial Intelligence for Interoperability	A254-011	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations
Autonomous Robotic Bridging	A254-012	4-Dec-24	26-Feb-25	https://www.dodsbirsttr.mil/submissions/solicitation-documents/active-solicitations

FY 2025 DoD SBIR/STTR BAA Release Schedule

- In October, the BAA release schedule changed
- 12 releases
- New BAA topics will open on the first Wednesday of every month
- Some dates have changed from previous notifications
- For more information visit https://www.defensesbirsttr.mil/SBIR-STTR/Opportunities/

FY 2025 DoD SBIR/STTR BAA Release Schedule			
Solicitation Cycle	**Pre-Release**	**Open**	**Close**
25.4/D Release 1	Oct 2, 2024	Oct 23, 2024	Nov 20, 2024
25.4/D Release 2	Nov 6, 2024	Dec 4, 2024	Jan 8, 2025
25.4/D Rel. 3 Joint 25.1/A	Dec 04, 2024	Jan 08, 2025	Feb 05, 2025
25.4/D Release 4	Jan 08, 2025	Jan 29, 2025	Feb 26, 2025
25.4/D Release 5	Feb 05, 2025	Feb 26, 2025	Mar 26, 2025
25.4/D Release 6	Mar 05, 2025	Mar 26, 2025	Apr 23, 2025
25.4/D Rel. 7 Joint 25.2/B	Apr 02, 2025	Apr 23, 2025	May 21, 2025
25.4/D Release 8	May 07, 2025	May 28, 2025	Jun 25, 2025
25.4/D Release 9	Jun 04, 2025	Jun 25, 2025	Jul 23, 2025
25.4/D Release 10	Jul 02, 2025	Jul 23, 2025	Aug 20, 2025
25.4/D Rel. 11 Joint 25.3/C	Aug 06, 2025	Aug 27, 2025	Sep 24, 2025
25.4/D Release 12	Sep 03, 2025	Sep 24, 2025	Oct 22, 2025

Helpful Links

1. SAM.gov – Contract opportunities

2. GRANTS.gov – Federal funding opportunities

3. SBIR.gov – SBIR/STTR information and solicitations

4. defensesbirsttr.mil – DoD-specific solicitation information

5. dodsbirsttr.mil – DoD-specific solicitations

6. sbir.nasa.gov – NASA-specific solicitations

7. ohiofrn.org – Help with identifying opportunities, matchmaking, and proposal development

8. apex-innovates.org – Help with SBIR/STTR process navigation and matchmaking

Upcoming Events

Defense Innovation OnRamp Hub: Ohio – RF Spectrum Challenge
Event Info & Registration
Thursday, January 30, 2025
@ Arcade Innovation Hub, Dayton OH

Dayton Development Coalition Annual Meeting + Economic Review
https://daytonregion.com/events/ddc-annual-meeting-economic-review
Confirmed for Wednesday, February 5, 2025
@ Dayton Convention Center, Dayton, OH

OhioX 2025 State of Tech
https://www.eventbrite.com/e/2025-state-of-tech-powered-by-ohiox-tickets-1026061326047?aff=oddtdtcreator
Confirmed for Thursday, February 6, 2025
@ Ohio Statehouse, Columbus, OH

The Ohio State University 2025 Ohio Air Mobility Symposium
https://u.osu.edu/ohiouamsymposium/
Confirmed for Monday, February 24, 2025 - Wednesday, February 25, 2025
@ The Blackwell Inn on Ohio State University's campus, Columbus, OH

Workforce Development for the Hydrogen Economy
Event Info & Registration
Thursday, February 27, 2025
@ The Ohio Aerospace Institute, Cleveland OH

OhioX Ohio Tech Summit
https://www.ohiotechsummit.org/
Confirmed for Thursday, May 8, 2025
@ Ohio State University, Columbus, OH

Thank you

Mark Bartman, Maj Gen (Ret.), USAF
VP for Advanced Development
Mark.bartman@parallaxresearch.org

John Owen, Program Manager
OnRamp Hub: Ohio
John.owen@parallaxresearch.org

Becky Mescher, Program Coordinator
OFRN
Becky.Mescher@parallaxresearch.org

Also contact us at
OnRampHubOH@parallaxresearch.org
OFRN@parallaxresearch.org

OFRN Website
https://ohiofrn.org