



Call for Technology: Robotic IEW Systems

Southwest Mission Acceleration Center (SWMAC) is seeking new & emerging technology solutions in support of future robotic autonomous intelligence and electromagnetic warfare (IEW) systems. These robotic platforms will assist with intelligence and electromagnetic warfare operations in large scale combat operations, offloading the human risks of ground collection operations in non-permissive environments. Robotic IEW systems should:

- use the latest artificial intelligence and machine learning (AI/ML) technologies to maneuver through varying terrain (jungle, desert, etc.).
- be able to identify, detect, and effect adversary systems with or without a human in the loop.
- withstand the rigors of ground transport over rough terrain.
- provide electrooptical, infrared, thermal, and radio frequency collection on a robotic platform.
- utilize low probability of intercept and detection communications links for data backhaul and command and control.
- utilize AI/ML for target recognition, obstacle avoidance, and target identification.
- provide modular payloads that can adapt to varying missions.
- be operated independently or with a human in the loop.
- provide anti tamper capabilities.
- demonstrate teaming with other robotic systems or networked with other sensors on the battlefield.

A [Technical Readiness Level](#) (TRL) of 5 or higher is preferred.

About the Southwest Mission Acceleration Center

Located in Phoenix, Arizona, the SWMAC is expediting critical technology assets to the warfighter in collaboration with DoD mission partners to address pressing National Security challenges. SWMAC programming includes critical technology identification & venture creation, lab-to-market commercialization, direct funding and contracting support to develop prototypes, and training and support for entrepreneurs and the tech workforce needed to ensure these startups and our mission partners succeed.

Technology Submission Process

Please submit a quad chart to the SWMAC **no later than 12:00 p.m. EST on Friday, January 26, 2024**. Quad charts should be sent as an email attachment to solutions@swmac.org. All information requested below MUST be included.

Top Left Quadrant: Introduction

- Brief project title or description.
- Overview of the current capabilities.

Top Right Quadrant: Key Features or Components

- Major features and components of the system.



- Bullet points or concise explanation of how your technology satisfies the above requested features/functions.
- Visual representations or icons to aid understanding (if applicable).

Bottom Left Quadrant: Company Profile

- List of current customers (priority to Federal customers)
- Current level of investment in the continued development, including the sources of funding.
- Brief explanation of corporate structure and ownership.

Bottom Right Quadrant: Benefits or Impact

- Positive impact on stakeholders, clients, or users.
- Metrics or data showcasing the value proposition (if available).