



Call for Technology: Artificial Intelligence for Autonomous Systems

The Mission Acceleration Center (MAC) is seeking new & emerging technology solutions in the realm of Artificial intelligence (AI) capabilities for autonomous systems. Ideal technologies will enable various unmanned systems (aerial, ground) to perceive their environment, make decisions, and take actions without limited or no human intervention. Specific areas of interest include:

Autonomous Navigation: AI systems that enable vehicles and drones to complete path planning to navigate from point to point while considering obstacles and other constraints without human input.

Swarm Intelligence: Coordination among multiple units empowering perception, decision-making, and learning abilities to exhibit sophisticated and adaptive behavior across a wide range of applications.

AI for Electromagnetic Warfare: AI applications capable of enhancing the effectiveness, agility, and resilience of electromagnetic warfare operations across the spectrum of EA, EP, and ES.

AI for Logistics and Supply Chain: tools to enhance supply chain logistics in contested environments, enabling stakeholders to mitigate risks, optimize operations, maintain resilience in the face of security challenges and uncertainties by adapting to dynamic threats and disruptions.

AI in Combat Simulation and Training: tools capable of delivering more realistic, effective, and adaptive learning experiences, better preparing military personnel to perform effectively in combat scenarios.

A [Technical Readiness Level](#) (TRL) of 6 or higher is requested.

Technology Submission Process

There are three ways to submit your technology for consideration:

1. Quad chart (see additional instructions below)
2. Company pitch deck
3. Technology capabilities statement

Please choose the format that works best for you and submit to the SWMAC. Please also include video footage of your technology in action. Submissions can be sent as an email attachment to solutions@swmac.org.



QUAD CHART SUBMISSION GUIDELINES

If you choose to submit a quad chart, please follow the instructions below to ensure that all the information needed by our review team is provided.

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 of the technology, 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).

About the Southwest Mission Acceleration Center

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