Booz | Allen | Hamilton®

BOOZ ALLEN'S HUMAN MACHINE TEAMING SOLUTIONS ROBOTIC & AUTONOMOUS SYSTEMS

Our clients trust Booz Allen to combine robotic systems with human teams to enhance mission performance for high-speed maneuver, advanced sensing, and precision effects.

Booz Allen applies a human-centered engineering approach focused on connecting mission behaviors with autonomous actions and protected by advanced cybersecurity to deliver trusted robotic teammates. We are driving the capabilities of autonomous robotics teams forward with a hardware- and software-agnostic approach that continues to integrate the best resources industry has to offer, while championing the client need and mission requirements.

OUR CORE DESIGN TENETS:

+ **HUMAN-FOCUSED:** Human team performance is our focus. We analyze the team and identify opportunities to enhance team speed, precision, and safety by connecting and enhancing robotic and autonomous systems. The benefits for human teams are increased safety, improved situational awareness, and reduced cognitive burden. Teams and leaders can decide and act faster.

+ **MISSION-CENTERED:** Booz Allen experts are developing solutions for surveillance, reconnaissance, resupply, sensing, and maneuver. These mission experts create use cases, define tasks, and prioritize critical measures of effectiveness and performance. The result is a mission-centered system with humans on and in the loop receiving real-time and post-mission analytics.

+ **CONTINUALLY TESTED:** Booz Allen engineers create digital twins to apply model-based systems engineering and map the mission to the system design. Roboticists and AI/ML scientists select and combine robotic platforms, sensors, and autonomy actions via open-standard connections.

OUR CORE FEATURES:

+ **PLATFORM-AGNOSTIC SYSTEM-AS-A-SENSOR:** Open, modular architecture engineered for ingestion and processing of multi-modal data streams to enhance situational awareness and post-mission analytics. Connects to resilient networks to deploy algorithms and move data reliably.

+ **INTEROPERABLE WITH TACTICAL ASSAULT KIT (TAK):** Leverages the TAK ecosystem to allow users to interact seamlessly with robotic platforms.

+ **INTUITIVE COMMAND-AND-CONTROL:** Simplifies interfaces and uses voice and visual cues delivered via devices in use today.

+ **FIT FOR USE IN ALL DOMAINS:** Incorporates zero-trust principles and cybersecurity engineering so robotic teammates are free from vulnerabilities and function as intended in all terrain and threat scenarios.

About Booz Allen

Booz Allen is the premier digital integrator for the Department of Defense, blending decades of mission experience with state-of-the-art AI/ML, next-generation data solutions, networking, cyber, and advanced software development to help DOD achieve information dominance. We bring our defense clients the best emerging technology to help them quickly and easily modernize, achieve interoperability, and win.

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