Warfighter Performance

AI-Enabled Performance Optimization

Booz Allen

We create innovative solutions to achieve and maintain optimal performance for the military's greatest asset: the warfighter. Our focus on human-centered design ensures intelligent, configurable technology to empower warfighters to be mission-adaptable—enhancing the sensor-to-shooter experience, improving the cognitive capacity of the joint force, and driving sustainable performance.

Booz Allen's cutting-edge technology solutions drive warfighter performance optimization through increased situational awareness, agility, and decision-making support.

Digital Visualizations

Our digital environment improves decision making and expands innovation across the systems engineering lifecycle. We deliver a common suite of digital modeling and simulation toolsets with an authoritative technical database to deliver actionable information. Our approach informs tradeoffs and analysis, from initial design activities through fielding and sustainment support.

On-Body Technologies

Advanced technology designed for future operational environments enhances effectiveness and survivability at the individual level without adding cognitive load. Compatible with the Tactical Assault Kit (TAK) ecosystem, the body-worn mission stack solutions use Internet of Medical Things (IoMT) wearable sensors and artificial intelligence and machine learning (AI/ML) to deliver tailored triggers that generate key insights to inform training and operations.

Enhanced Performance Textiles

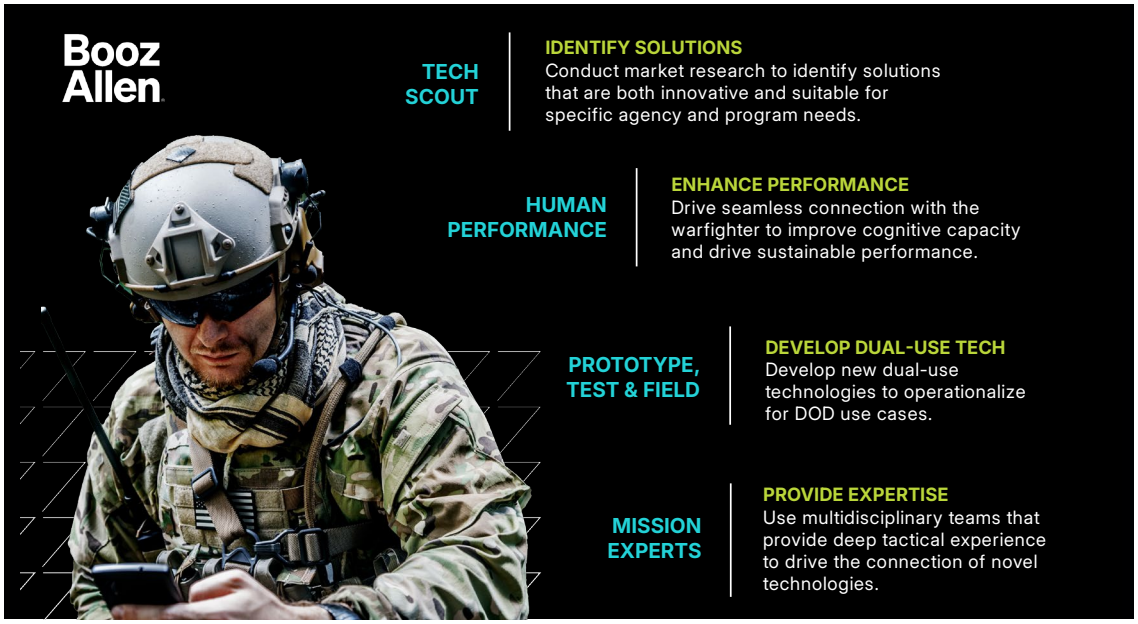
We identify, connect, and operationalize emerging textile technology for the Department of Defense (DOD). Leveraging Booz Allen's renowned tech scouting processes and strategic partnerships, we conduct rapid prototyping to bridge the developmental "valley of death" and apply textile technologies at scale to improve warfighters' operational effectiveness. Technological focus areas include alternatives to per- and polyfluoroalkyl substances (PFAS), multispectral signature reduction, personal protective equipment, and performance apparel.

Booz Allen's Lorton Flagship Engineering Facility

Booz Allen's Lorton Flagship Engineering Facility, home to the Warfighter Applications and Rapid Prototyping Center (WARP-C), is a tech hub designed to provide advanced technology creation to meet the evolving needs of warfighters. Strategically situated near Fort Belvoir, Quantico, and the Pentagon, this facility is primed to offer rapid, accessible onsite testing, training, and prototyping. WARP-C features a high-bay facility with reconfigurable space designed for testing, prototyping, and technology development. This area supports small drone testing, as well as payload and sensor connection, acting as a modular system for rapid configuration. WARP-C also features multiple specialized labs, including spaces devoted to warfighter performance; robotics and autonomy; data and cyber; and materiel science, all of which are purpose-built to enhance development and function in their perspective areas. The facility also houses a modular data center with the capability for secure, disconnected operations.

Components of Warfighter Performance

Overview of Warfighter Performance



About Booz Allen

Booz Allen is the advanced technology company delivering outcomes with speed for America's most critical defense, civil, and national security priorities. We build technology solutions using AI, cyber, and other cutting-edge technologies to advance and protect the nation and its citizens. By focusing on outcomes, we enable our people, clients, and their missions to succeed—accelerating the nation to realize our purpose: **Empower People to Change the World.®**

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For additional resources:
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