



# Human Performance

## Accelerate Readiness with Technology that Powers Performance

Booz Allen's human performance technology drives squad resiliency, skill proficiency, and overall mission readiness – providing secure, data-rich environments for performance analysis across the Department of Defense (DoD).

### THE CHALLENGE

Winning the mission demands laser focus on our most important national asset: the warfighter. The military must assess human performance from the tactical to strategic lens, from the edge warfighter to the movement of fleets and brigades.

### THE 5 DOMAINS OF PERFORMANCE OPTIMIZATION

Booz Allen's human performance technology provides real-time, actionable insights via biometric and sensor feedback, driving decision advantage. We continuously assess our technology stack against a sports-science-based methodology that prioritizes five key domains for transforming human potential.



COGNITIVE



TECHNICAL



TACTICAL



HEALTH



PHYSICAL



### ASSESS · TRAIN · PREDICT

**Assess** performance and readiness individually and collectively with strategic protocols.

**Train** with customized programs that integrate technology for real-time biofeedback and performance metrics.

**Predict** outcomes, simulate scenarios, and model performance outcomes using historical, biometric, and operational training data.



## EXPLORE TECHNOLOGY IN OUR WARFIGHTER PERFORMANCE LAB

Booz Allen's 21,000-square-foot Warfighter Applications and Rapid Prototyping Center (WARP-C) Engineering Facility in Lorton, Virginia houses our Warfighter Performance Lab where we engineer solutions for training and operations.

### BODY WORN TECH



Smart  
Wearables

- Sensor Integration
- Embedded Systems
- Edge Processing
- Integration and Test
- Wearables Threat Testing (Future Capability)

### ANALYTICAL TOOLKITS



Secure  
Data & AI

- Descriptive and Predictive Analysis
- Machine Learning (ML) and Artificial Intelligence (AI) Models
- Intuitive Interfaces and Visualizations

### DIGITAL ENGINEERING & SPATIAL COMPUTING



Custom  
Hardware

- Digital Twins
- Model-Based Systems Engineering
- Sensor Infused Biofeedback
- AR/VR Scenarios

### ENHANCED PERFORMANCE TEXTILES



Textile  
Technology

- Prototyping
- Laboratory Testing
- Warfighter Touchpoints

## BENEFITS OF HUMAN PERFORMANCE TECHNOLOGY

- Puts secure human performance data analytics for DoD and intelligence operations at your fingertips.
- Enhances lethality and speeds skill proficiency through immediate bio- and sensor-feedback.
- Increases retention during training by empowering leaders with training programs backed by sports science and data insights to assess the human factor.
- Informs training evaluations with intuitive data dashboards and AI assistants.
- Saves costs in training by integrating performance metrics into immersive environments and live, virtual, and constructive gaming.
- Establishes maturity diagnostics and performance baselines to benchmark progress.
- Delivers training programs crafted with sports science insights to meet standards and optimize performance.
- Integrates with live, virtual, and constructive (LVC) gaming and immersive environments and tracks performance in virtual and extended reality.

### CONTACT US AND MORE INFORMATION

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