

Enhanced Performance Textiles

Operationalizing Commercial Textile Technology



Our enhanced performance textiles capability focuses on building, prototyping, and fielding textile technology that will enhance the functionality, durability, and adaptability of the joint force. Leveraging Booz Allen’s renowned tech scouting processes and strategic partnerships, we conduct rapid prototyping to apply emerging textile technologies that improve the operational effectiveness of our servicemen and women.

Tech Scouting

Using industry-leading tech scouting research tools and processes, we conduct textile technology sector deep dives to provide a full evaluation of industry trends and a downselected list of recommended technology providers.

Prototyping

We work with supply chain partners to adapt commercial textile technologies for DOD-scale use. Prototyping focuses on needs like per- and polyfluoroalkyl substance (PFAS) alternatives, signature management, and protective gear, with designs centered on warfighter requirements and developed across our labs and manufacturing centers.

Performance Validation

We create test plans and validate textile technology performance through operational warfighter testing. Booz Allen conducts lab-scale testing with industry and government partners, producing scorecards and recommendations.

Cross-Functional Team and Collaborators

Materials Engineering	Mission Experts
Human Performance	Digital Engineering
Research & Development Partners <ul style="list-style-type: none">AcademiaConsortiumStart-Ups	Industry <ul style="list-style-type: none">MillsFinishingCut/Sew

Qualifications and Focus Areas



PFAS-Free Textile Coatings



Performance Apparel




Smart Textiles



Body Armor



Personal Protective Equipment



Signature Management



Lifecycle Management



Footwear

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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