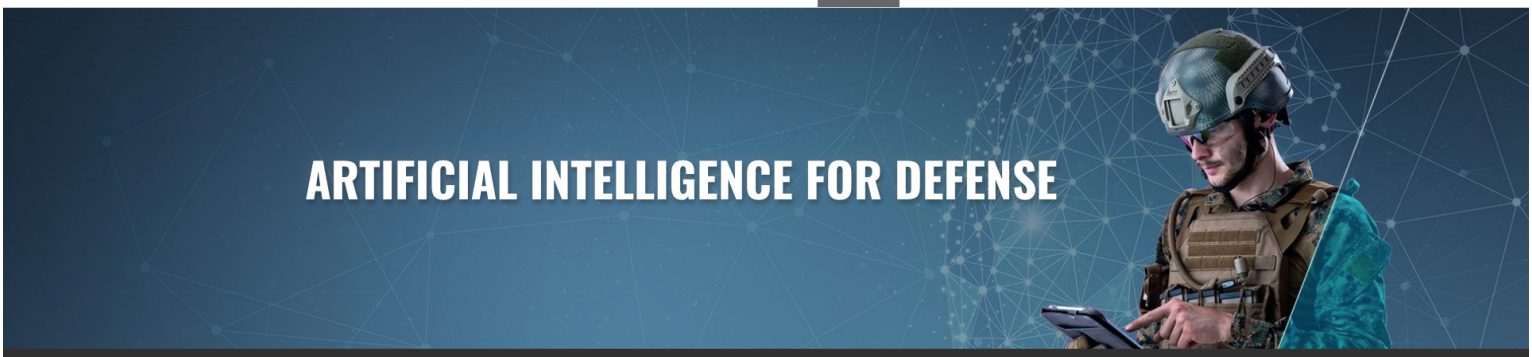
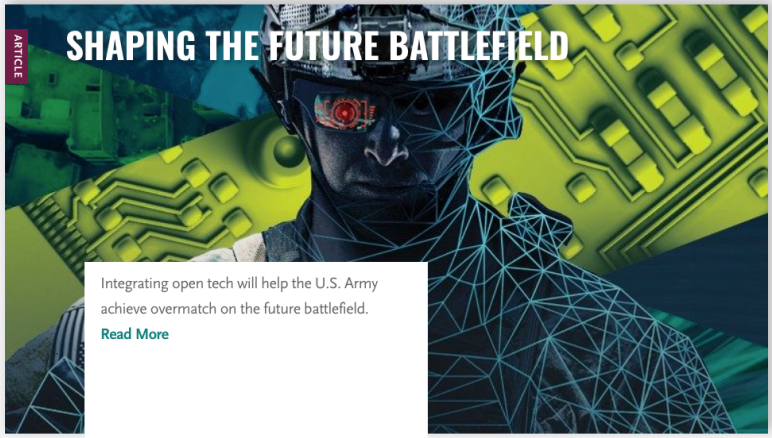


Machine Learning to Empower the Warfighter

In future conflicts, it will be essential for warfighters to maintain an instantaneous decision advantage. Supporting this capability, artificial intelligence (AI) is critical to enabling action at the speed of the digital battlespace—which will be far faster than the human ability to process and act on incoming data. The final report of the National Security Commission on Artificial Intelligence provides a call to action to operationalize AI across defense. And modernization initiatives, such as Joint All-Domain Command and Control (JADC2)—a new approach to decision making that requires seamless data connection between sensors and shooters, across services and domains—will rely on the power of AI to succeed.

Booz Allen is here to help the Department of Defense (DoD) win the global AI race ahead of America's adversaries and ensure that AI is seamlessly integrated into all aspects of missions and operations. From advancing and sharing award-winning AI research in operationally relevant areas such as Adversarial AI, to investing in best-of-breed technology providers, to defining and building infrastructure to support operational AI capability, to scaling the AI capability by training an AI-ready workforce, we're leading key elements of AI development to help DoD strengthen the advantage it needs to prevail.

Featured Insight



Integrating open tech will help the U.S. Army achieve overmatch on the future battlefield.

Read More

Advanced Machine Learning for Defense Missions

AI empowers defense organizations with capabilities to support the warfighter at the tactical edge, simplify data collection and analysis, and transform logistics.

- **Performance at the tactical edge**
  To deploy AI in a hub-and-spoke network, models need to integrate into existing hardware and support low size, weight, and power scenarios. By training algorithms on small form factors that mimic the existing sensor fleet, organizations can reduce inference latency in tactical environments. Booz Allen leverages partnerships with graphics processing unit manufacturers such as NVIDIA to optimize platforms while pushing models forward through our machine learning operations (MLOps) framework.
- **Edge-ready model deployment**
  Forces require data access to enable their AI workflows despite closed or disconnected networks. Edge nodes need the ability to ingest data and send pared-down outputs to environments with more compute resources to improve models. To meet these challenges, Booz Allen rapidly deploys tactical AI solutions using best-in-breed technologies to address new and evolving mission sets.
- **Synthetic data generation**

Intelligence teams face major collection obstacles in anti-access/area denial environments. In the digital battlespace of the future, synthetic data generation techniques will help paint the picture of unknown operating environments, generate data that trains algorithmic models to analyze the operational picture, and enable improved machine learning models.

» **Predictive maintenance and joint logistics**

Many organizations currently rely on time-consuming, error-prone legacy processes for analyzing and forecasting near- and long-term supply chain needs. AI can help ensure equipment availability and readiness with automated data acquisition, preparation, and analysis that free resources to focus on strategic actions while improving accuracy, cost-effectiveness, and decision making.

Want more information?

Sign up to receive our latest insights about artificial intelligence for defense.

First Name*

Last Name*

Email Address*

Organization*

Country*

Please select

Would you like to receive occasional email updates from Booz Allen Hamilton?

Select...

I would like to get in touch with someone from the Edge Computing team.

I'm not a robot

reCAPTCHA
Privacy - Terms

Submit

Related Experts

Steve Escaravage
Artificial Intelligence Lead

Justin Neroda

Graham Gilmer

Share

Top

Stay Connected with Booz Allen Connect Now