ALION

A NEW ERA OF SYSTEMS

Bridging Invention and Action to Support National Security

SPEED, INNOVATION, AND SECURITY

While agencies across the U.S. defense and national security ecosystem may hold distinct missions, recent narratives from their leaders share two common threads: speed and innovation. They are calling for a renewed ethos in the way we build and sustain national defense systems, to overcome political and financial stalemates and put America back in front.

The U.S. was once a leader in the agile creation of cutting-edge systems, but that position has waned since the days of Apollo. Today, it can take as many as 15 years for the country to field new systems, while our adversaries are doing it in three. Regaining the lead will require calculated risk-taking, innovation that's free from constraints, and rapid prototyping that supports scale and replication.

This new approach must balance risk and reward. After all, innovation is just a word, if it's not backed by practical solutions to real-world problems. The U.S. must be willing to fail forward, bridging invention and action to support national security— now and in the future.

BRINGING SILICON VALLEY TO U.S. DEFENSE

At Alion, we are working closely with government, academia, and industry partners to develop the next generation of advanced systems for national security. Whether proving viability, prototyping critical parts, securing data, or re-engineering workflows, we help clients increase uptime and amplify capabilities by designing and integrating complete people, process, and information systems.

Our engineers and technologists apply artificial intelligence (Ai) to augment human performance and realize massive efficiencies for current and future systems. Through our vendor-agnostic approach and comfort with open source or third-party applications, we adapt innovations from Silicon Valley to bring the best solutions to the DoD.

With our detailed understanding of defense and national security applications, as well as expertise in deep and machine learning, we combine technical excellence with real-world operator experience to deliver proven systems engineering and integration solutions that support your mission success, even as the battle landscape changes.
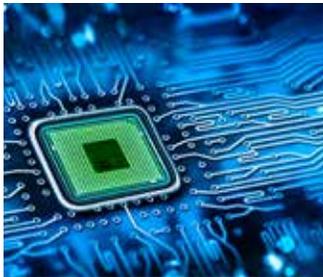
ALION'S SYSTEMS SOLUTIONS

At Alion, we design and integrate a variety of system solutions to give America's service members an edge in their missions. By applying our agile engineering methodology to every project and program, we help you save time and money, while delivering industry-leading systems engineering and integration solutions for defense and security. Together, we are engineering an edge at the edge for our clients.

DATA FUSION

Alion is developing cutting-edge data fusion engines and algorithms to help the United States advance the way it gathers, integrates, validates, and activates mission-critical defense and intelligence information. Building on our machine and deep learning capabilities, we give you the ability to ingest all available inputs from multiple sources for an integrated, more robust collection, analysis, and classification tool that drives smarter military action.

EMBEDDED SYSTEMS

Multicore technologies, modern warfare systems, cloud technologies, and more are driving the need for embedded systems that deliver increasing complexity without compromising on size, weight, cost, or performance. Our engineers develop and deliver these systems — including microprocessors with increased computational power — by combining functional and domain experience with commercial off-the-shelf (COTS) hardware components at a rapid rate.

ARTIFICIAL INTELLIGENCE

We help national defense and security clients apply practical Ai solutions to revolutionize national security systems. By pairing data insights and systems expertise with machine and deep learning capabilities, our applied Ai solutions enable fast, secure, and decisive operations. We are working to advance the nation's defense through improved human-machine teaming across the full spectrum of military action.

SYSTEMS ANALYSIS

Today's warfighters must incorporate fast-moving technological advancements into existing systems, to keep up with the increased tempo of modern operations. We help customers meet their mission requirements — even as they change — through expert analysis, improvements, and integration. To date, we have performed studies and developed solutions to solve some of the most difficult challenges for DoD research and operational commands.

To learn more about our complete package of systems engineering and integration solutions, or to get connected with one of our experts, visit us online at www.alionscience.com/systems.

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About Alion Science and Technology

At Alion, we combine large company resources with small business responsiveness to design and deliver mission-critical engineering solutions. With an 80-year technical heritage and an employee-base comprised of more than 30% veterans, our engineers, technologists, and program managers bring together an agile engineering methodology and the best tools on the market to deliver mission success faster and at lower costs. Based just outside of Washington, D.C., we help clients turn big ideas into real solutions. For more information, visit www.alionscience.com.

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