ALION

THE FUTURE OF ISR
Technology to Aid Military Insight & Interoperability

A NEW ERA OF DEFENSE AND SECURITY

The United States' long-standing military posture and national security have been gained, in part, through unparalleled intelligence, surveillance, and reconnaissance (ISR) capabilities. As the nation moves into a new era of defense — with changing adversaries who exploit an array of fast-evolving technology — its ISR capabilities must rise to meet new demands for speed, scale, and security.

Mission success now requires quick, seamless, and secure access to information in the Cloud. It requires the intelligent, nimble integration of systems to support the long-term combat effectiveness of military platforms. It requires continued dominance of the electromagnetic spectrum, which has always been an imperative for military operations. And it requires the ability to synthesize vast amounts of data from modern sensors that overwhelm even the most advanced traditional processing techniques.

The future of ISR means keeping pace with the future of technology, so that America's defenses remain at the leading edge.

ADVANCING CRITICAL U.S. INTELLIGENCE

At Alion, we exist to support American warfighters through technology and engineering innovation. We've been trusted partners to the national security community for more than 80 years, with a track record of quality and the credentials to prove it.
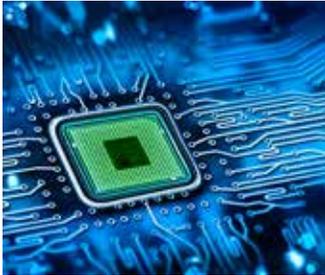
With 30% veterans and forward-deployed engineers, we bring operational experience to deliver ISR solutions that work in the real world. We are experts in sensors, platforms, processing, and C5ISR, with the ability to exploit massive DoD and intelligence community (IC) data sets. Today, we are augmenting ISR sensing and control systems with machine and deep learning to help U.S. government clients collect and synthesize data faster and more accurately, so they can make more informed command and control decisions.

As vendor-agnostic curators of commercial technology, we are helping advance the nation's defense through proven ISR solutions backed by applied artificial intelligence (Ai) and human-machine teaming across the full spectrum of military operations.

ALION'S ISR SOLUTIONS

From low-SWaP architectures to R.A.I.D towers, we provide integrated ISR solutions to aid military insight and interoperability. We are deeply analytical partners who never stop looking for a way to make things better. That's why we apply our agile engineering methodology to every project and problem, saving time and money for our clients while delivering full-lifecycle ISR solutions.

SENSORS & SYSTEMS

The fusion of RADAR, communications, electronic warfare, and cyber effects into a low-cost, low-profile package is a force multiplier in the field. Our low-SWaP sensors and sensing solutions are built on state-of-the-art architectures and employ a system-on-a-chip embedded processor. They can operate as a stand-alone system, be connected for multi-mode operation, or be integrated into an existing common operating picture to provide maximum insight.

PLATFORM INTEGRATION

Alion is on the forefront of advancing and integrating leading-edge data fusion algorithms and unique advanced sensors onto special mission military platforms. Our engineers use rapid prototyping and agile development processes to deliver special-mission capabilities in mere months— solutions that would normally take years. We enlist and oversee critical partner capabilities to deliver best-of-breed solutions for our special mission customers in rapid time.

CLOUD SOLUTIONS

As an approved Amazon™ Web Services (AWS) Cloud Provider for the intelligence community (IC), we pair the benefits of a customized cloud operating environment with deep and machine learning capabilities to address the needs and heightened security concerns specific to DoD and IC customers. We help clients securely capture, organize, store, and manage their sensitive data— even as technology and privacy standards evolve.

SPECTRUM SOLUTIONS

We are the leading industry experts on all things wireless spectrum— from specialized electromagnetic tools to policies that govern the use of this limited resource. With 65 years of experience and more than 200 spectrum engineers and policy experts, we are anticipating the future to optimize system performance within the complex electromagnetic environment, where more and more systems depend on interference-free spectrum access.

To learn more about our complete package of ISR solutions, to discover what's possible with ISR backed by applied Ai, or to get connected with one of our experts, visit us online at www.alionscience.com/ISR.

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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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