Today’s warfighters must incorporate fast-moving technological advancements into existing military systems to keep up with the increased tempo of the modern operational landscape. Understanding the interplay of systems in advance — and troubleshooting potential issues early on — is essential to both the speed and effectiveness of U.S. defense and security.

**Supporting System Success**

From platform development to software integration, analysis plays a critical role in designing, developing, and operating military systems to meet mission needs. By taking a top-level view of systems and systems of systems, system analysis helps evaluate whether a physical or digital system has the necessary specifications and design for viable, efficient performance. And, if issues are found, system analysts can provide guidance and support to resolve them.

Through this meticulous process, military leaders and operators can reduce system errors, make improvements or modifications, or implement alternatives to save time and cut costs.

**Increase Uptime & Amplify Capability**

As a core aspect of our business, Alion has performed studies and developed solutions to some of the most difficult systems challenges for DoD research and operational commands. Our technology and process solutions help national defense and security clients meet their mission requirements — even as they change — through expert analysis, improvements, and integration.

We use both new technology and proven techniques to identify issues, illuminate the best approach to resolution, and guide the way forward. As vendor-agnostic curators of commercial tools, our engineers and technologists apply artificial intelligence (Ai) and deep learning to augment human performance and realize massive efficiencies for current and future systems.

Whether evaluating requirements, proving viability, prototyping critical parts, or re-engineering workflows, we help clients increase uptime and amplify capabilities by optimizing complete people, process, and information systems.
ALION’S SYSTEMS ANALYSIS SOLUTIONS

At Alion, we test, design, and integrate a variety of systems solutions to give America’s service members an edge in their missions. By applying our vendor-agnostic approach and agile engineering methodology to every project and program, we help clients save time and money, while delivering industry-leading systems analysis solutions to support U.S. defense and security.

FEATURED WORK

R&D TO GIVE THE U.S. MILITARY AN EDGE
We provide research and development solutions and support for the DoD Information Analysis Center Program Management Office (IAC PMO), through a contract sponsored by the Defense Technical Information Center (DTIC).

This effort encompasses analytical services for vital technical areas, including basic and applied research, advanced technology and component development, systems development and demonstration, management support, and operational systems development.

Through this work, we are evolving solutions to advance the mission of the DoD while continuing our support of warfighting, security, and the operational needs of the U.S. military.

ARMY RF MONITORING & ANALYSIS
Alion supports the U.S. Army Corps of Engineers (USACE) in maintaining, modernizing, and protecting vital ground-based and satellite communications infrastructure assets that are crucial to the USACE during emergency situations. USACE communications systems access to the radio frequency (RF) spectrum is challenged by competing commercial interests. Our analysis, surveying, and testing activities will result in the development of monitoring and protection solutions that will protect USACE systems from RF interference.

We have worked to optimize systems performance within operational spectrum and electromagnetic constraints for more than 55 years. This current efforts aims to ensure that USACE has unfettered access to the RF spectrum it needs for the continued success of its mission.

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