BATTLE AND LAND FORCE DOMINANCE

The emerging operational environment indicates that future operations will be significantly different than those of the recent past. U.S. forces must be prepared to confront sensor-rich militaries of peer states and proxies that employ precision-guided munitions on highly lethal battlefields.

The 21st century calls for ready ground combat forces capable of outmaneuvering these adversaries, physically and cognitively, through the extension of combined arms across all domains. To achieve that objective, the DoD must grow its operational force to be more robust and successful in all domains, along with modernizing it with the best weapons and equipment available.

The next era of combat requires innovation and adaptation of concepts, equipment, and training. U.S. defense and national security leaders must invest in the technology and research to make sure America’s warfighters have the capabilities they need when they need them to achieve decisive tactical overmatch.

BACKING BOOTS ON THE GROUND

Alion provides full-lifecycle engineering and integration services focused on the systems-of-systems “move” and “shoot” capabilities of ground combat systems. Our engineers develop and integrate solutions that help joint warfighters win decisively as part of multi-domain combat operations.

We support a range of needs—from the individual level; to major land combat weapon system platforms; to conventional, semi-autonomous, and autonomous armament, munitions, and mobility systems. For more than four decades, we have worked with the DoD to enhance and develop ground combat systems that reduce size, weight, power consumption, and cost (SWAP-C) while enhancing lethality and survivability.

Through development and integration of superior maneuverability, firepower, and defensive protection solutions, we are partnering with the U.S. military to make sure the nation has the modern tools and weapons to win amid the evolving operational environment.
ALION’S GROUND COMBAT SOLUTIONS

We currently support four of the U.S. Army’s Program Executive Offices (PEOs) as well as two of the U.S. Army RDT&E centers and labs. We also support the U.S. Marine Corps (USMC) in developing advanced tools and methodologies to rapidly develop Integrated Logistics Support (ILS), War Reserve (WR), and Prepositioning (PREPO) logistics solutions to enable rapid USMC and joint force combat operations.

GROUND VEHICLES
We deliver ground vehicles that can move across off-road and on-road terrain with maximum efficiency while maximizing efficacy and protection.

ARMAMENTS & MUNITIONS
Our SMEs support research, development, acquisition, and total lifecycle management of advanced conventional weapon systems and ammunition.

COMBAT SUPPORT SYSTEMS
From comms to logistics to artificial intelligence (AI), we support specialized combat functions to enable superior capabilities on the ground.

FEATURED WORK: TARDEC SUPPORT
Alion supports the United States Army Tank Automotive Research, Development and Engineering Center (TARDEC) in developing vehicle fire prevention and suppression technologies aimed at reducing vehicle damage and occupant injury. We plan and direct onsite support of live-fire test at Aberdeen Proving Grounds, perform subsequent data analysis, and draft reports for briefs and publications. In addition, our engineers also support the development and testing of new agents to replace Halon, which is being phased out due to ozone layer concerns. As part of this effort, we continually work with suppliers in support of vehicle fire system modernization and instrumentation across a broad range of ground combat systems.

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. Learn more at www.alionscience.com/groundcombat.

CONTACT:
Vickie Woodard
VP, Business Development
vwoodard@alionscience.com
+1.919.455.5565 (phone)