

Advanced Materials, Manufacturing, and Testing Information Analysis Center

AMMTIAC

Making the right decisions up front for acquisition planning reduces the occurrence of problems in service for Department of Defense (DoD) systems. Premature degradation and failure of systems and their components result in unplanned engineering and sustainment costs and may even reduce useful service life. The staff and resources of the Advanced Materials, Manufacturing and Testing Information Analysis Center (AMMTIAC) provide program managers and developers with the capabilities required to develop and sustain DoD systems and infrastructure with minimal total cost of ownership.

PLANNING FOR THE FULL LIFE CYCLE

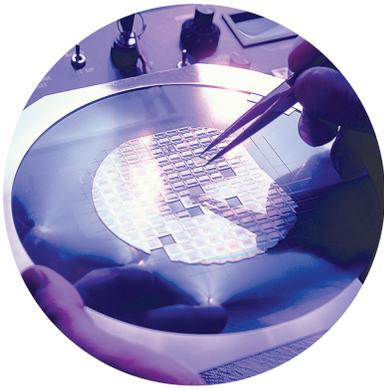
AMMTIAC meets the warfighter's needs and those of the greater Advanced Materials, Manufacturing, and Testing (AMMT) community by providing comprehensive support to the nation's defense systems and infrastructure across the entire life cycle. AMMTIAC provides a technical and strategic resource for life cycle decision information and services to reduce acquisition and Operations & Maintenance (O&M) risk, increase system performance, reduce total ownership costs, improve system readiness, and provide true "cradle-to-grave" support to the warfighter.

In the rapidly changing geopolitical landscape, today's warfighter is evolving to meet the challenges of operating in asymmetric environments in which mission profiles constantly change. All this is done at a high operational tempo, which stresses systems, subsystems, and components as

never before. To ensure mission success, technologies and logistics support must respond in kind. Materials, manufacturing, and testing directly influence system readiness and performance more than most fundamental enabling technologies. To operate successfully in these changing environments, systems must function reliably in the field for longer durations, with minimal levels of logistical support, and without frequent access to the chain of supplies. Yet these systems must still be affordable, mobile, survivable, and lethal. AMMTIAC enables the warfighter to meet these objectives by being DoD's System Solution Provider.

YOUR SOURCE FOR TOTAL SYSTEMS SOLUTIONS

AMMTIAC is DoD's Center of Excellence responsible for acquiring, archiving, analyzing, synthesizing, and disseminating scientific and technical information related to advanced materials, manufacturing, and testing.



AMMTIAC maintains DoD's knowledge base in AMMT technology in an extensive technical library offering nearly 300,000 technical reports, research papers, and books. A wide-ranging data-acquisition program continually adds reports to the library that are developed by the military Services, thus ensuring the collection's relevance and currency to both newly emerging DoD requirements and fielded assets. AMMTIAC's interdisciplinary engineering staff is world class at employing the available knowledge base to ensure that smart program decisions are made at both technology and systems levels. AMMTIAC is operated for DoD by Alion Science and Technology Corporation and is supported by a multi-faceted team of 24 industrial and academic organizations whose collective capabilities and experience span the entire AMMT knowledge base.

AMMTIAC helps acquisition and sustainment programs reduce risk when developing and fielding systems and infrastructure by making them more affordable and maintainable, maximizing their service life, increasing readiness, and enhancing operational safety. AMMTIAC offers the following services to meet these goals:

Technology Selection Services—AMMTIAC is DoD's repository of materials manufacturing, and non-destructive testing technology. Our exclusive, immediate access to DoD's legacy knowledge base and our in-depth qualifications in these enabling technologies help clients identify and avoid using problematic materials,

processes, and assessment methods that can lead to unplanned (and unbudgeted) maintenance costs, shorter system life cycles, and reduced readiness of DoD systems.

Engineering System Support—AMMTIAC's broad technical expertise allows us to provide direct engineering support to clients in numerous specialized technologies. Examples include corrosion, armor and ballistic protection, thermal-protection systems, anti-mine technology, rapid prototyping, low-volume productivity, condition-based maintenance, and real-time health monitoring.

Technology Assessments—Improving the reliability of fielded assets is often a reason to search for new approaches, and technology insertion can be an effective way to reduce O&M costs. However, introducing new technologies without first assessing their viability carries considerable risk. We routinely assess new technologies to determine their suitability for specific applications.

Technology Transfer—AMMTIAC assists DoD's AMMT research communities by providing access to critical enabling technologies in various ways.

The AMMTIAC Quarterly is a widely distributed technical publication that is highly regarded within these communities. It highlights cutting-edge research projects sponsored by the Services and related government activities. AMMTIAC also provides direct online access to a variety of databases and information systems to directly support the research, development, acquisition, and sustainment communities.

CONTACT US:

AMMTIAC
201 Mill Street
Rome, NY 13440-6916
Tel: (315) 339-7117
Fax: (315) 339-7107
<http://ammtiac.alionscience.com>
ammtiac@alionscience.com

John Weed
Director
Tel: (973) 770-0123
jweed@alionscience.com

Mary Priore
Core Operations Manager
Tel: (315) 339-7135
mpriore@alionscience.com

James P. Thomas, Ph.D.
Contracting Officer's
Technical Representative (COTR)
Tel: (202) 404-8324
jthomas5@anvil.nrl.navy.mil