

Testing & Evaluation

Analysis and operational support for subcomponents to full-scale systems

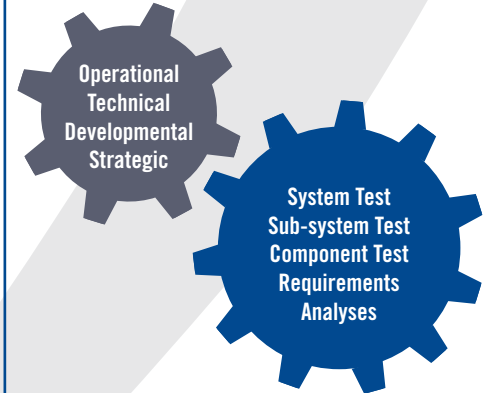
Our Approach

We provide whatever combination of skills and expertise are needed to get the job done right.

- **Apply engineering, analytical, and subject matter expertise** to design standard and non-standard testing of military medical equipment and biodetection systems.
- **Plan, facilitate, execute, lead, and report** on T&E activities of complex systems of systems, single devices, and even subcomponents.
- **Coordinate with research facilities, laboratories, and multiple government agencies and contractors** to integrate testing considerations into development and acquisition processes.
- **Develop and review test strategies and Test and Evaluation Master Plans (TEMPs)** and support test safety reviews for developmental and operational tests.
- **Conduct technical reviews** of systems under development to assess concepts and progress.
- **Interface with independent test agencies conducting tests**, such as Dugway Proving Ground (DPG) and Edgewood Chemical Biological Center (ECBC), to ensure tests meet stated requirements and standards and that test reports accurately reflect testing and analyses.
- **Integrate test data** across multiple test events to inform system performance modeling.

Our Areas of Expertise

Our T&E expertise supports every phase of acquisition development and encompasses every phase of the product lifecycle.



Our Involvement

From autonomous detectors to medical equipment, our T&E capabilities adapt to a wide range of technical areas to bring success to clients in defense, homeland security, and health.

- We provide MRMC Test Branch with engineering expertise, including experience testing military medical systems and the most current MIL-STD-810G requirements, to design and execute standard and non-standard testing of military medical equipment. We also provide clinical expertise to ensure testing activities are appropriate for the final operational use and operating environment.
- In support of JPEO-CBD's Assessment of Environmental Detection (AED) Whole System Live Agent Test (WSLAT), we coordinated the T&E of environmental detection systems in a state-of-the-art laboratory chamber with live agent testing. We developed a sensor refurbishment plan, risk mitigation plan, training plan, assay and consumable plan, and technician support plan, all within an aggressive timeline, earning accolades from the client.
- We reviewed test plans for biodefense systems, including the Next Generation Diagnostic System (NGDS), Joint Handheld Bio-Agent Identifier (JHBI), and the Advanced Development and Manufacturing (ADM) facility for medical countermeasures.
- We helped develop the test strategy for the DHS BioWatch Technology Enhancement (BTE) effort, designing a test approach to validate the NDI-based acquisition strategy and vendor claims.
- We conducted a 14-week operational field test of the DHS BioWatch system in a large metropolitan area, to examine how the technology performed in an operationally realistic urban environment.
- Because there was no single government facility to accommodate every testing objective of the complex DHS BioWatch detection system, we facilitated a collaborative effort between multiple DoD, DOE, and private sector laboratories to execute tests.
- For JPEO-CBD and JSTO, we developed operational demonstrations to evaluate novel concepts for Biological Integrated Early Warning (IEW) and Force Protection decision support systems.
- Coordinating with National Laboratories, Environmental Protection Agency (EPA), and state and local hazardous material (HAZMAT) teams, we evaluated airborne- and surface-sampling techniques for aerosolized biological pathogens and contaminants settled on surfaces, which involved robust scientific and statistical evaluation of current bacillus spore sample collection methods.
- As lead support contractor for the co-sponsored DHS and Defense Threat Reduction Agency (DTRA) Interagency Biological Restoration Demonstration (IBRD), we collaborated with Sandia National Laboratory (SNL) to conduct a field test on the electro-chemical activation (ECA) system—an outdoor decontamination device.
- We helped the DHS BioWatch program successfully gain test safety approval from National Laboratory Safety Boards, and we supported successful test safety reviews for tests at DPG and Patuxent River Naval Air Station, for an outdoor simulant test necessitating strict public and occupational health and safety.

Contact Us

We want to talk about ways we can help you achieve your goals.

Call or email one of our corporate leads for more information about opportunities to work together.

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