

Environmental Testing & Integration

Fly the spacecraft on the ground before you fly it for real.

CHALLENGE

Spacecraft need thorough testing before they fly, and that requires reproducing the space environment on the ground, faithfully and rigorously.

SOLUTION

At QinetiQ North America, it all starts with understanding the mission. Proper testing and integration can ensure that something that works down here will also work up in space. We have the highest clean room expertise for testing all types of robotic spacecraft. QinetiQ North America has provided a suite of solutions for simulating a space environment and testing essential technology— Environmental Test and Integration Services:

- Environmental testing – thermal, vacuum chamber, structural, electromagnetic, space simulation
- Mechanical integration
- Advanced manufacturing
- Recertification
- Optical integration
- Facility acquisition or modification, facility maintenance, clean room operations and contamination control
- Development of electrical cable harness and thermal blankets
- Engineering and computer systems management
- Procurement, logistics and equipment/property control



RESULT

When human life, large investments, and irreplaceable assets are on the line, environmental testing and integration reduce the unknowns. And when the unexpected happens during a mission, reproduction of the space environment helps show the way to mission assurance.

WHO WE ARE

An independent, innovative defense and security technology solutions provider, QinetiQ North America's 50-year legacy of customer intimacy and proven performance continues in our globally honored technological capabilities and solutions. Earning over a billion dollars in revenue, we operate with small company speed and agility while leveraging significant global resources. QinetiQ North America's engineers, scientists and other professionals have the mission knowledge and proven performance to meet the demands of defense, homeland security and information assurance customers. QinetiQ North America is part of QinetiQ Group PLC, one of the world's leading defense and security technology companies. Offering the agility of best-in-class entrepreneurial subsidiaries, our corporate culture thrives on cutting-edge science and creative practical application. We own more than 4,000 patented solutions and technologies created in one of the world's largest defense laboratory systems.

OUR CAPABILITIES

Talented engineers, scientists, program managers, and other professionals deliver:

- Software development, operations and maintenance support
- Service oriented architecture
- Information assurance and cyber security
- Network engineering, operations and communications solutions
- System engineering and integration
- Mission-intimate decision support solutions
- Enterprise and network architecture
- IT and communications for space operations
- Space system solutions
- Ground system engineering and support

By focusing on our customers' requirements, we are able to provide solutions to even the most complex challenges:

- Space research, launch systems support, and testing
- Security systems design and improvement
- Environmental and energy testing and research
- Land and resource management
- Communications upgrade and information
- Facility design, management and analysis
- IT solutions: software, enterprise systems, networking, and training
- Defense hardware and equipment design and production
- Business and management services

QinetiQ North America's legacy companies have a long record of working with Government customers to provide:

- Microgravity research, development, and operations
- Independent verification and validation for evolved expendable launch vehicles
- Environmental test and integration
- Expendable launch vehicle integrated support (ELVIS)
- Information management and communications
- System engineering and integration

OUR CREDENTIALS AND COMMITMENT TO QUALITY:

- ISO 9001:2000 registered
- SEI CMMI Levels 2 or 3 (externally assessed), Level 4 for verification
- IT Infrastructure Library (ITIL)
- Project Management Institute certified staff
- Seven NASA Silver Snoopy Awards

QUESTIONS?

E-mail aerospace@QinetiQ-NA.com

For more information, please visit www.QinetiQ-NA.com