

Engineering and Scientific Support

You can learn a lot in 30 years. That's how long we've supported NASA with engineering and scientific expertise.

CHALLENGE

Provide comprehensive, cost-effective support and expertise in diverse fields of technology development, engineering, and business operations for space programs.

SOLUTION

We know NASA's mission and have made it our mission. The experience we have gained enables us to be proactive – not just reacting to surprising developments, but preparing for the unexpected. From overall project management to flight hardware, product assurance, and engineering design, development, testing and evaluation, QinetiQ North America is already invested in the mission and always looking for improved solutions for the next 30 years and beyond. Here are some of the services we currently deliver to NASA:

- Space flight systems engineering – launch vehicles, spacecraft, payload systems analysis
- Aerospace technology
- Propulsion technology
- Microgravity science and technology
- Engineering development – ground systems/ processing of launch vehicles, spacecraft, and payloads
- Lab and development facility operations and technical

FLIGHT HARDWARE: We support the development of the Ares 1 Upper Stage Thrust Vector Control (TVC) System, recently providing technical expertise for the successful TVC Preliminary Design Review. As part of an integrated team, we provide electrical engineering, mechanical engineering, systems and operations engineering, and scheduling support to the TVC program office.

PROJECT MANAGEMENT: Our Resource Management Group's core competency is providing project office support, specializing in resource analysis and budgeting, schedule creation and analysis, and Earned Value Management (EVM). In addition, our technical personnel provide IT support and security, financial database design, coding and reporting, web design, outreach support, technical writing and editing, document control, graphics design and IT security.

PRODUCT ASSURANCE: As an on-site NASA support service contractor, our employees adhere to the product assurance guidelines established by NASA. In addition, we have established an ISO-certified ISO:9001 Quality Management System, which is tailored for performing a task order NASA contract. Primary elements include task order processing; purchasing, including vendor certification for fabrication; test and inspection; and training. QinetiQ North America also actively participates in NASA's Glenn Research Center's (GRC) Contractor Safety Council.

ENGINEERING DESIGN, DEVELOPMENT, TESTING, EVALUATION AND OPERATIONS: We operate the vibration lab and the electromagnetic interference (EMI) lab at GRC. Engineering design, development, and testing is provided as adjunct functions to the development of flight hardware and other deliverables.

RESULT

Our expertise helps fuel NASA's success – 30 years of support provides a firm foundation and grasp of the relevant issues for 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?

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