

# Axient Program Highlight: Air Force Research Lab (AFRL) R&D Integrated Space Experiments (RISE) *Accelerating Possible.*

## Executive Summary

Our R&D Integrated Space Experiments (RISE) contract with Air Force Research Laboratory Space Vehicles Directorate (AFRL/RV) provides concept design, development, integration, test, launch integration, and operations and evaluation of new space technologies and engineering prototypes. We support a broad range of mission areas including Intelligence Surveillance and Reconnaissance, Position Navigation and Timing, Space Situational Awareness, Space Control, and Weather across all classes (Class 1 “Rapid Sats” to Class 3 “Flagships”).

In support of the RISE contract, Axient provides:

- **Program Management**
- **Mission Design:** Analytic modelling of enterprise objective and translation to individual mission formulation; systems engineering translating requirements into initial designs
- **Implementation:** Engineering, including systems, software, and test engineering; systems engineering support; flight hardware design, fabrication and assembly
- **Assembly, Integration, and Test:** laboratory research engineering, design, scheduling test preparation, software and operation; flight payload and experiment integration and test
- **Experimental Demonstrations:** spacecraft launch integration, commissioning and on orbit experimentation; integrated ground experiments, design fabrication and assembly; ground system development, integration, test and deployment; mission planning and operations
- **Technology Transfer** of lessons learned and technology capability to enterprise partners

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## Current Missions Supported

- Small Satellite Portfolio (SSP): Very Low Frequency Propagation Mapper (VPM), ASCENT, Recurve
- Space Solar Power Incremental Demonstration & Research (SSPIDR)
- Navigation Technology Satellite-3 (NTS-3)
- ESPA Augmented Geostationary Laboratory Experiment (EAGLE)
- Demonstration and Science Experiments (DSX)

## COOPERATIVE SMALL AEROSPACE TESTING

Through a Cooperative Research and Development Agreement (CRADA), Axient provides other government agencies and commercial industry access to the AFRL's premier test assets (thermo vacuum chambers, vibration tables, and clean rooms, to name a few) at very affordable costs.

## ABOUT AXIENT

Axient is the result of the merger of four leaders in the defense and civil markets: QuantiTech LLC, Millennium Engineering and Integration LLC, Systems Engineering Group, and Dynamic Concepts LLC. Axient has locations in New Mexico, California, Colorado, Florida, Tennessee, and the National Capital Region. Headquartered in Huntsville, Alabama, Axient has provided premier services and solutions to the Federal Government for more than three decades. Customers choose Axient because they know they can trust our people and count on our performance. With over 2200 employees and multiple locations, we provide local expertise and program management to our customers which means faster response times and an easier partner to reach. Axient is certified in the following: ISO 9001:2015, AS9100 Rev D, CMMI-DEV Maturity Level 3, and has a DCMA Purchasing System, DCMA Property System, and DCAA Accounting System. Our history of success is attributable to our core philosophy of putting mission and customers first, empowering our program leaders, and eliminating barriers to success for our customers by providing value-added, mission-oriented services and solutions.