

ALBUQUERQUE OPERATIONS

The Space Dynamics Laboratory (SDL), part of the Utah State University Research Foundation, is strategically positioned to support the Department of Defense and other U.S. government agencies in the New Mexico area.

SDL has had a physical presence in Albuquerque, New Mexico since 2007 and recently expanded with the opening of a high-bay facility in 2010. SDL has over 50 years of expertise in developing sensor systems and supporting technologies. Leveraging that heritage, SDL can now bring all of its core capabilities to bear in support of its customers in the New Mexico area. Co-located with Applied Technology Associates (ATA) in the Sandia Science and Technology Park, SDL's access to over 6,000 sq. ft. of assembly, integration and test facilities in Albuquerque include a state-of-the-art high bay along with additional clean rooms and secure areas. With this location, SDL can provide sensor testing, characterization and calibration; mission design and analysis; systems engineering; software development; and assembly, integration and test support services.

SDL is a nonprofit research corporation and a unit of the Utah State University Research Foundation (USURF), owned by Utah State University. SDL is one of only 14 University Research Affiliated Research Centers (UARCs) in the nation. As such, SDL maintains a strategic relationship with the Department of Defense (DoD) in the development of key defense technologies.



The primary ATA assembly and test area.



The new SDL/ATA high bay can accommodate a wide range of thermal vacuum chambers and other test, characterization and calibration equipment.



Space Dynamics
LABORATORY
Utah State University Research Foundation

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Since 1970, SDL has been designing, building and testing cryogenic- and vacuum-compatible sensors and calibration systems and is known for its world-class calibration and test expertise and facilities. SDL's access to the Albuquerque facilities continues this legacy and provides the following services:

- **SENSOR TESTING, CHARACTERIZATION & CALIBRATION**

SDL has experience in all phases of calibration and testing including bench-top ground tests, atmospheric flight tests, in-flight space environment tests, establishing test plans and procedures, conducting tests, reducing and post-processing test data, demonstrating and documenting adherence to established test plans and procedures and documenting test results.

- **MISSION DESIGN & ANALYSIS**

SDL is experienced in mission design and analysis and knows what steps are necessary to take solid science to the mission level including instrumentation accommodation, testing and calibration, launch preparation and data collection.

- **SYSTEMS ENGINEERING SERVICES**

SDL's system engineers are veterans at designing and managing complex flight hardware and software systems, assessing risks and establishing measurement requirements. They oversee the system design, development, production and operation from concept to deployment while maintaining cost and schedule control.

- **SOFTWARE DEVELOPMENT**

SDL develops a wide range of software products including stand-alone applications, spacecraft bus solutions, graphical user interfaces (GUIs), databases, cyber security tools, distributed systems, processing algorithms, embedded code and code for Field-programmable Gate Arrays (FPGAs).

- **ASSEMBLY, INTEGRATION & TEST SUPPORT**

SDL has performed the assembly, integration and test support for a broad spectrum of projects and is proficient in coordinating and executing the overall AIT process on the subsystem and system level.



SDL and Applied Technology Associates (ATA) enjoy a collaborative relationship in which the shared facilities enable both organizations to capitalize upon one another's strengths. ATA specializes in all aspects of precision sensing, measurement and controls. During the past 30 years, ATA has built a reputation of excellence in angular rate sensors, calibration and testing, optical stabilization, R&D services, and test and evaluation.

ATA PROVIDES:

- Government Services
- Motion Control Systems
- Optical Measurements & Imaging Systems
- Space and Airborne Surveillance
- Test, Evaluation & Training



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