SDL’S MISSION

ADVANCE SCIENTIFIC & DEFENSE OBJECTIVES

• Researching, developing, and characterizing sensor, electronic, and software systems
• Providing program lifecycle support
• Enhancing the education and development of scientists and engineers

UARC CORE COMPETENCIES

• Electro-optical sensor systems research and development
  - Innovative sensor components and systems
  - Cryo-systems thermal design, development, and handling
  - Sensor calibration, characterization, test, and evaluation
• Ground, airborne, and space-rated instruments and payloads development, test and evaluation, integration, validation, and operations to include technology insertion including form, fit, function, and miniaturization of mechanical, optical, and electronic devices
• Modular Open Systems Architecture (MOSA) for airborne, space, and ground applications
• Autonomous and intelligent unmanned sensor systems
• Geo-based active stabilization and pointing for airborne, space, and ground applications
• Large-scale data processing, handling, compression/decompression, and visualization techniques for sensor analysis, data exploitation, data fusion, and dissemination
• Phenomenology measurements, modeling, and simulation
• Sensor modeling and simulation
• Small/micro satellite sensor systems and components
• Prototype development of ground systems to support ground, airborne, and space instruments
  - Multi-domain command and control (C2), including C2 research and analysis and developing C2 concept of operations (CONOPS)
• Cyber analytics and high speed network

AT A GLANCE

• Founded in 1959
• Annual revenue for FY17 ~$94M
• Nonprofit 501(c)(3) owned by Utah State University
• Over 560 employees
• Approximately 100 university student employees
• 430+ spaceflight missions
  - Satellite-based sensor systems
  - Shuttle and ISS instruments
  - Sounding rocket payloads
• 15+ years of providing UAV and aircraft-based sensor suites and in-theater C4ISR hardware and software systems
• Over 220,000 ft² state-of-the-art facilities in 7 locations
• One of 14 University Affiliated Research Centers (UARCs) in the Nation
• Registered to the ISO 9001:2015 standard
SDL IS THE MISSILE DEFENSE AGENCY'S UNIVERSITY AFFILIATED RESEARCH CENTER (UARC)

UARCs are strategic DoD research centers associated with a university. SDL was one of the original six UARCs established in May 1996 by the Under Secretary of Defense for Acquisition and Technology, (USD A&T)/Director, Defense Research, and Engineering (DDR&E). Although UARCs receive sole-source funding under the authority of 10 U.S.C. Section 2304(c)(3)(B), they also may compete for science and technology work unless precluded from doing so by their contracts with the DoD. Some key roles of a UARC is to:

• Ensure that essential engineering and technology capabilities of particular importance to the DoD are maintained
• Provide independent assessment and development of technology
• Respond to evolving DoD requirements
• Operate in the public interest, free from real or perceived conflicts of interest

SDL'S STATE-OF-THE-ART FACILITIES

• Electro-optical sensor calibration/characterization equipment and facilities
• AI&T clean rooms and high bays with full contamination control services
• Space qualification and environmental testing
• Nano-sat test and qualification facility
• Comprehensive machine shop
• Electronics design and assembly labs
• Modeling, analysis, and simulation
• Full service security office

SEVEN CUSTOMER-CONVENIENT LOCATIONS

• Albuquerque, NM
• Los Angeles, CA
• Washington, DC
• Huntsville, AL
• Bedford, MA
• Houston, TX
• Dayton, OH
• Logan, UT

For more information about any of SDL's programs, facilities, or capabilities, or to inquire about potential collaboration, please contact us:

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