

# PEARL

## SPACECRAFT PLATFORM



The Space Dynamics Laboratory's (SDL) Pearl spacecraft platform delivers the performance, reliability, and mission flexibility needed for demanding small satellite missions. The Pearl platform architecture draws from common sets of components for nano to ESPA-class satellites with variations in mission capability, parts quality, and radiation tolerance. This flexibility enables SDL's engineers to develop mission-specific, reliable systems while drawing on a common design to keep costs low.

Ensure mission success by taking advantage of SDL's state-of-the-art testing facilities, experienced staff, and high-performance systems. SDL also provides mission support throughout the entire mission lifecycle, from concept through the end of on-orbit operations.

### FEATURES

- Parts quality scaled to mission needs
- Options available for type 1 encryption
- Support for a range of radiation requirements (LEO, HEO, GEO, Planetary)
- Traceability from requirements definition through the design, test, and verification phases
- Comprehensive verification and validation of mission requirements with hardware-in-the-loop testing
- Flexible, customizable, and adaptable solutions
- Support for rapid prototype missions, using standardized components
- Full mission lifecycle engineering support
- Facilities on site to support all program phases, from fabrication to environmental testing