

CAPABILITIES



Stellar Solutions Aerospace provides expertise tailored to meet your specific project requirements. Our experienced staff provide immediate impact with practical and knowledgeable support. Stellar Aerospace experts have considerable experience in all aspects of space programmes, from planning and development through implementation and operation.

This list represents a summary of selected capabilities; please contact us to discuss how our experts can address your specific needs.

Strategic Planning & Programme Management

- Strategic Planning
- System Architecture and Concept Development
- Programme Schedule Management
- Programme Budget Assessment
- Vendor Monitoring and Contract Compliance Evaluation
- Risk Assessment and Management
- Frequency Coordination

Launch Vehicle Procurement & Payload Integration

- Technical and Contractual Implementation and Monitoring
- Interface and Compatibility Analysis
- ICD Development
- Launch Payload Integration

Mission Implementation and Operations

- Mission Requirements Evaluation and Analysis
- Launch and Early Orbit Phase Planning and Execution (LEOP), including In-Orbit Test (IOT)
- Mission Procedure Development, including Contingency Planning and Rehearsal
- Launch and Mission Technical Support
- Anomaly Investigation and Resolution

Technical Training

- Project Management
- System/Subsystem Engineering Overview
- System/Subsystem Operations
- Mission Operations

System Engineering & System Integration

Space & Ground Segments

- Requirements Definition and Allocation
- Design Feasibility Trade Studies
- System/Subsystem and Hardware Design Requirements and Specifications
- Interface Control, Requirements and Verification
- Design Review Implementation and Red Team Support
- System/Subsystem Integration and Test Activities: Planning, Verification and Evaluation
- Performance Monitoring and Compliance Verification
- Product Assurance
- Hardware Heritage and Qualification, Classification and Review
- Commercial (COTS) Product Capability and Compatibility Assessment

Subsystem Expertise

- Communications/RF Systems
- Bus Systems:
 - Mechanical, Structural, Mechanisms, Thermal, Propulsion and Power
- Attitude Dynamics and Control Telemetry and Command Systems
- Data Handling and Ground Systems
- On-Board Processing Systems
- Environmental Analysis

Insurance Procurement

Contact us at: