



Sidus Space delivers precision-engineered solutions across the full product life cycle, from concept to deployment. Our multidisciplinary team of engineers and technicians leverages advanced tools and model-based systems engineering to bring complex systems to life with speed, accuracy, and efficiency.

Whether developing prototypes, test articles, or flight-ready systems, we ensure every design meets the highest standards for performance, manufacturability, and mission success.

Key Benefits

- » **Precision Design** - Model-based systems engineering approach with 2D and 3D CAD release for accurate and efficient design.
- » **Cost-Effective Solutions** - Design for life cycle cost and manufacturability to minimize costs and optimize production.
- » **Thorough Analysis** - Comprehensive product analysis to ensure high-quality and reliable space systems and subsystems.
- » **Clear Requirements Definition** - Initial design concepts and requirements definition to ensure alignment with mission objectives.
- » **Optimized Performance** - Value-add engineering change recommendations to improve system performance and efficiency.
- » **End-to-End Development** - Full lifecycle development of space systems and subsystems for seamless integration and deployment.

Capabilities

Fluids and Propulsion Design

- » Ammonia, Cryogenic, and Hypergolic Systems
- » Environmental Control and Ground Coolant Systems
- » High-Pressure Gaseous and Hydraulic Systems

Ground and Engineering Support

- » Cryogenics, Propellants, and Pneumatics
- » Electrical Power and Life Science Programs

Hardware Engineering

- » COTS Hardware and Level V Internal Requirements
- » Hardware/Software Integration and Test
- » Configuration Item Support and Prototyping

Reverse Engineering

- » Full range deconstruction and analysis of design, architecture, and materials

Systems Engineering and Integration

- » Space Flight, Ground Support, and Military Training Systems

Technical Analysis and Investigation

- » Concept Development and Systems Analysis
- » Thermal and Safety Calculations
- » Statistical Modeling and Risk Assessment

