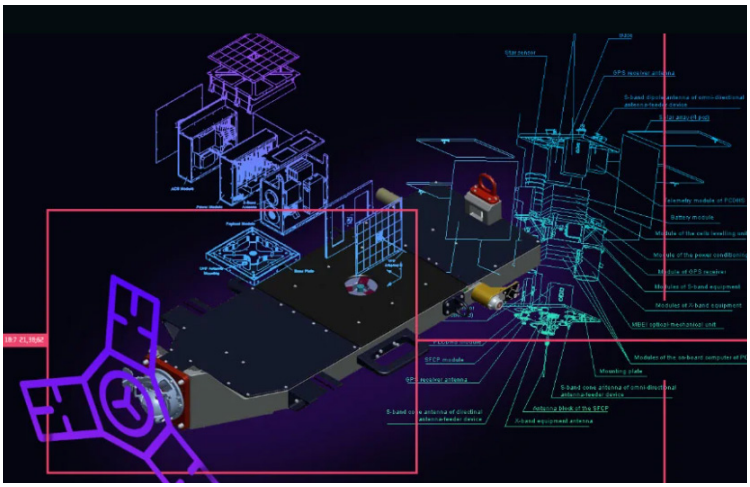
Engineering

Design Services



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

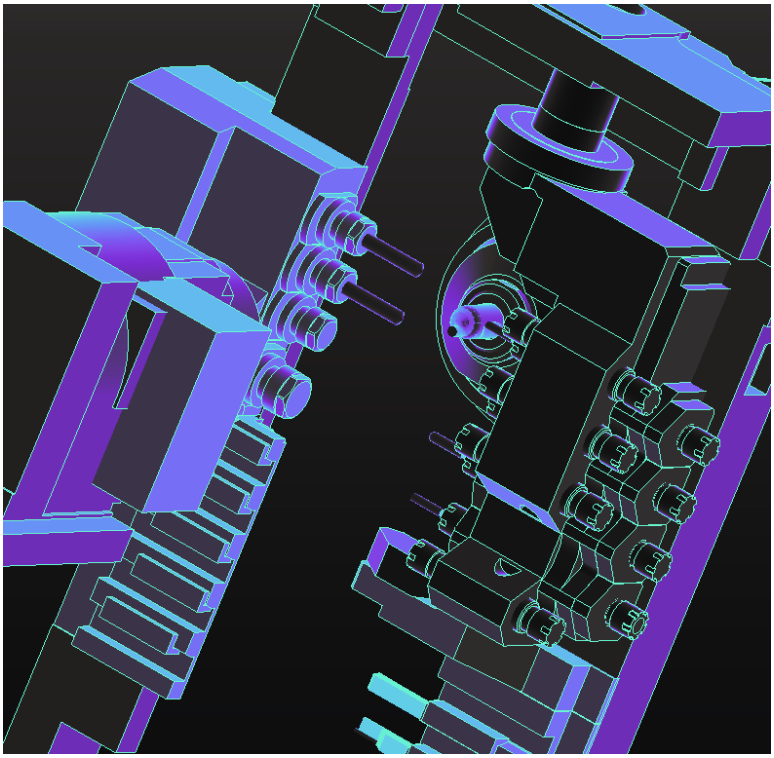
- Full range deconstruction and analysis of design,architecture, and materials

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



FOR MORE INFORMATION
EMAIL US AT:
SALES@SIDUSSPACE.COM

400 W. CENTRAL BLVD.,
CAPE CANAVERAL, FLORIDA,
USA 32920

SIDUSSPACE.COM
+1 (321) 450.5633