JBS solutions
SERVICE WITH INTEGRITY

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JBS Solutions is an engineering services firm headquartered in Huntsville, AL with employees in AL, TX, and MD supporting Department of Defense and NASA customers. JBS offers innovative solutions in mission operations, engineering services, technical logistics, and supply chain management. We specialize in Spaceflight Operations, Logistics and Transportation Planning, Systems Engineering and Integration, and Mechanical Design and Analysis Engineering. JBS is HUBZone Certified, Woman Owned Small Business (WOSB), and Small Disadvantaged Business (SDB).

CORE COMPETENCIES

Mission Operations

- Flight Operations (Manned and Unmanned)
- Mission Planning, Integration, and Execution
- Payload Crew Procedures and Training
- Payload Stowage
- Anomaly Identification and Resolution
- Telemetry, Tracking and Command Activities
- Orbital Maintenance Maneuvers
- System Configuration

Supply Chain Management

- Supply Chain Mapping
- Risk Identification and Mitigation
- Supply Chain Structure Development
- Performance Metrics and Data Requirements
- Supply Chain Optimization
- Process Improvement
- Key Performance Indicators
- Schedule Optimization

Logistics and Transportation Planning

- Transportation and Logistics Plans
- Logistics Support Data
- Packaging, Handling, and Storage Requirements
- Lifting Equipment Design
- Maintenance Significant Items
- Maintenance Personnel and Training
- Inventory Requirements
- Facilities

Systems Engineering and Integration

- Systems Engineering Management Plans (SEMP)
- Interface Control Documents
- Concept of Operations
- Requirements and Architecture
- Design Reference Missions
- Verification and Validation for Requirements
- Sequence Diagrams
- WBS Development

Mechanical Design and Analysis Engineering

- Flight Hardware, Production Tooling, and Ground Support Equipment (GSE) Design
- Simulation and Solid Modeling (CAD)
- Product and Process Optimization
- Fatigue and Fracture Analysis
- Finite Element Analysis
- Product Lifecycle Management (PLM)
- Design for Manufacturability (DFM)

Contract Vehicles

- **NASA MSFC Engineering Solutions and Prototyping (ESP)**
- **NASA MSFC Mission Operations and Integration (MO&I)**
- **NASA MSFC Universal Stage Adapter (USA)**
- **NASA GSFC Ground System and Mission Operations (GSMO-2)**
- **GSA Professional Services Schedule (PSS) GSA SINS 871-1, 871-2, 871-5**
- **AMCOM Express (Technical Domain)**

• HUBZone Certified with a Scalable HUBZone Model	• SBA Woman Owned Small Business (WOSB)
• Small Disadvantaged Business (SDB)	• CAGE Code: 6E3Q6
• DUNS #: 078596984	• DCAA Compliant Accounting System
• NAICS: 541330, 541715, 541614	• Meets size standard for all $7M NAICS Codes

HUBZone
Historically Underutilized Business Zone

SBA
Certified Small Disadvantaged Business

SBA WOSB
Woman Owned Small Business

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EXCELLENT SOLUTIONS

Mission Operations

JBS supports MSFC's Payload Operations and Integration Function with technical solutions to ensure adequate support for the real-time configuration and monitoring of the **International Space Station** components. **Our expertise ensures that equipment, consumables, and personnel are available for successful operations.**

JBS meets mission objectives for GSFC's Earth Science Mission Operations Program with support to real-time operations of the Terra, Aqua, and Aura spacecraft**. Our personnel are skilled at identifying anomalies as they occur, and then provide the necessary expertise to reduce satellite failure, down-link interruptions, and data recovery time.**

Logistics & Transportation Planning

Our customer, MSFC, needs a comprehensive end-to-end plan for the Transportation and Logistics of the **Launch Vehicle Stage Adapter (LVSA)** assembly, and JBS provides the Solution**. Our senior level Logistics Engineer works the complex procedures and regulations to solve problems to ensure there is a comprehensive Transportation Plan every time the LVSA moves, resulting in risk reduction to hardware damage and personnel injury.**

Systems Engineering & Integration

Our customer, U.S. Army AMRDEC Weapons Development and Integration Directorate , need system engineering support to design, develop and demonstrate a system to meet the hard-kill requirements for a Close-In Active Protection System (CIAPS) and JBS helps to develop the solution. **The value to the customer was demonstrated in the capability to generate an architecture, system and subsystem level document and data structure that streamlined the SE process and accelerated the formalization and baseline of a validated requirements set according to a thorough System Engineering Management Plan (SEMP).**

Mechanical Design & Analysis Engineering

JBS provides flight hardware, production tooling, and ground support equipment design for the **NASA SLS Universal Stage Adapter (USA)** program. **JBS optimizes engineering design resulting in successful solutions for engineering and manufacturing challenges.**

JBS provides technical engineering expertise in fatigue and fracture analysis for NASA's SLS Launch Vehicle Stage Adapter (LVSA). We apply classical and computerized state-of-the-art fatigue and fracturing mechanics techniques to the evaluation of safe life and damage tolerance analysis. **JBS's fatigue and fracture analysis solutions safeguard and prevent the accidental or unexpected failures of equipment and structural items which are subjected to dynamic load spectra.**

Supply Chain Management

JBS provided Supply Chain Management support to NASA by developing new practices for supply chain management using the **NASA Space Launch System (SLS) Program** as a benchmarking effort. JBS established an efficient supply chain management structure, ensuring availability and readiness, of critical elements of the SLS. **By defining key performance indicators and mapping state of the art enterprise supply chain management practices, JBS empowered the customer to monitor, evaluate, and enforce schedule performance in the supply chain.**

SATISFIED CUSTOMERS

Here's What Our Customers are Saying About Us

"JBS has been doing an amazing job here on EOS! Their expertise has helped us troubleshoot an ongoing ground system issue. They have been and continue to be a valuable asset to our team." -Thomas Rusu, EOS Operations Manager, National Aeronautics and Space Administration, GSFC

"Just wanted to let you guys know that JBS personnel has been awesome to work with this week. They are one step ahead of me on just about everything. It's nice to call a TCO (Timeline Change Officer) about taking PPCRs/other stuff to POD and they've already done it. Good job on them!" -Todd Eggleston, Chief Training Officer, National Aeronautics and Space Administration, JSC

"No one on the LVSA team is more dedicated than JBS Personnel. They spend hours and late nights and weekends, to do whatever is needed to take care of every piece of hardware that we move. We can always depend on JBS and could not work without them." -Greg Lawson, Manager, Space Engineered Products and Solutions at Teledyne Brown Engineering

Aura measurements will help us answer questions about changes in our life-sustaining atmosphere (GSFC).

NASA's SLS Launch Vehicle Stage Adapter (LVSA) transport to test stand at MSFC.

Weapons System solutions for the Warfighter.