Jacobs Space Exploration Group (JSEG)
Midwest Aerospace Small Business Industry Day

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Jacobs Space Exploration Group
NASA Marshall Space Flight Center
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Company Overview

• Premier global consulting, design, engineering, construction, operations & maintenance and technical services firm

• We provide innovative solutions for a more connected, sustainable world

• Global network of 74,000 employees in more than 400 locations across 40+ countries

• Recently acquired CH2M
Company Overview

• Organized by Lines of Business
  – Aerospace, Technology, Environmental, and Nuclear
  – Energy, Chemicals and Resources
  – Buildings, Infrastructure, and Advanced Facilities

• Headquartered in Dallas, TX

• Committed to Safety, Innovation, and Sustainable Solutions
Company Overview

• Jacobs Space Exploration Group (JSEG)
  – Supporting NASA Marshall Space Flight Center (MSFC) continuously since 1989
  – Recipient of 2017 Small Business Administration Dwight D. Eisenhower Award for Excellence for Small Business Engagement
  – Awarded the MSFC Engineering Services and Science Capability Augmentation (ESSCA) contract; operations began December 1, 2017
Company Overview

JSEG Key Mission Areas

❖ Space Launch System Program
  ▪ Design & development of new heavy lift vehicle
  ▪ Systems engineering & integration
  ▪ Flight software, testing & integration
  ▪ Design, analysis, modeling & simulation, test
  ▪ Operation of Systems Integration Lab
  ▪ Insight into prime contractor activities

❖ International Space Station
  ▪ Environmental Control & Life Support System (ECLSS) sustaining engineering, spares, flight anomaly resolution, software
  ▪ Material Science Research Rack operations

❖ Earth & Space Science
  ▪ Gamma-ray Burst Monitor instrument operations center support
  ▪ James Webb Space Telescope primary mirror segment qualification testing
  ▪ Space environments & weather
  ▪ IXPE – Imaging X-ray Polarimeter Explorer
Company Overview

**EXAMPLES OF JSEG WORK**

- Mechanical & electrical design services
- Systems engineering & integration
- Structures & dynamics
- Electrical engineering & avionics systems development
- Payload development & integration
- Materials engineering & manufacturing
- Propulsion system research & development
Company Overview

Examples of JSEG Work

- SLS Solid Rocket Motor Tests
- SLS Weld Tensile Tests in MMTF
- J-2X Injector Test Firing
- Fluids Modeling for SLS Environments
- Engine Section Transporter for SLS Structural Test Article
- ISS ECLSS Bosch Test Stand Development
Tips for Success

- Get to know us and the services we provide
- Know who our customers are
- Learn what is important to the prime
  - Excellent cost control
  - Proven past performance
  - Robust financial management system
  - Flexibility and responsiveness