## Jacobs Space Exploration Group (JSEG)

Midwest Aerospace Small Business Industry Day


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## JACOBS

## 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


24-inch Rocket Motor Test


Thermal Protection System Spray Booth

## Company Overview



## Examples of JSEG Work



SLS Solid Rocket Motor Tests


Engine Section Transporter for SLS Structural Test Article


ISS ECLSS Bosch
Test Stand Development


SLS Weld Tensile Tests in MMTF


Fluids Modeling for SLS Environments

JACOBS

## 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

