

# Systems Safety Engineer

Middleburg Heights, OH

## Responsibilities:

- Perform System Safety Engineering hazard assessments and analyses in order to:
  - Identify and quantify risk
  - Assure compliance with NASA/Commercial safety requirements
  - Provide detailed reports and recommendations for mitigation strategies
  - Prepare and present technical presentations
  - Participate in Safety Panel Reviews
  - Review flight drawings and documents, operational scenarios, and subsequent changes for safety impact
- Provide real-time and post-flight engineering support for flight anomaly investigations
- Work with customers (NASA, Commercial), International Partners, Principal Investigators, and other Payload Providers and Prime contractors

## Requirements

- **US CITIZENSHIP OR VALID GREEN CARD REQUIRED**
- 2+ years of experience in Systems Safety Engineering
- Experience providing detailed technical briefings and progress reports to team members, customers and management
- Experience in requirements development, verification or assurance
- Excellent verbal and written communications skills; Ability to develop excellent working relationships with customers, peers, and management
- Experience using Microsoft Office to prepare detailed reports, presentations, and spreadsheets to convey technical information to customers and management
- Must be able to travel (up to 10%)

## Preferences

- Experience supporting manned and unmanned spaceflight programs in Safety, Operations, Training, Safety Panels and/or Flight Support.
- Familiarity with the NASA organization and with the International Space Station (ISS) subsystems and components
- NASA system flight safety review process experience to include participation in safety reviews and direct participation in conducting space system safety reviews

- Experience in any NASA Space Programs (e.g., Shuttle, Constellation, Space Station, Commercial Crew, SLS, Lunar Gateway)
- Knowledge of fault tree and risk management analysis
- An understanding of NASA ISS Safety Review Process (SSP 30599), NASA Safety Requirements Document (SSP 50021), and NASA ISS Safety Requirements Document (SSP 51721)
- An understanding of system safety analysis process, as well as how to generate safety data packages and hazard reports
- An understanding of the ISO 9001 and AS9100 quality management standards

### **About Us**

ZIN Technologies, Inc. is a federal contractor and an award-winning AS 9100 registered small, disadvantaged business (SDB) headquartered in Northeast Ohio. Established in 1957, ZIN is a leader in providing advanced engineering services and product development solutions for NASA, DoD, and private industry.

ZIN provides full lifecycle development of aerospace systems including design, development, engineering, integration, test, evaluation, orbital operations, systems modeling, simulation, verification, and validation. The flight hardware lifecycle spans concept definition, design, development, fabrication, verification, integration, launch, operations, and data processing.

We offer expertise in multi-discipline engineering, system and product development, production, and research and technology development. ZIN'S engineering capabilities include systems, mechanical, electrical, fluids, propulsion, structural, thermal, integration and test.

ZIN has a strong heritage in the areas of Space Operations including payload operations, space communications, navigation, and network reconfigurable testbed. ZIN supports exploration systems (ORION, SLS, ISS, commercial vehicles) and space technologies (advanced communications, power, propulsion, cryogenics).

Our award-winning 200+ person organization consists of scientists, engineers, designers, and technicians. ZIN employs an integrated performance-based management approach, providing experienced people, proven processes and tools and exceptional cost, schedule, and technical performance while identifying and managing program and project risks.

Offering Unsurpassed Product, Process and Service:

- Prime contractor
- Sub-contractor
- Product manufacturer
- Value-added service provider

### **Company Benefits and Programs**

In addition to competitive salaries, ZIN offers excellent benefits to our associates, including medical, vision, and dental insurance; short- and long-term disability; life insurance; paid leave and paid holidays; 401(k) retirement plan (immediate vesting); education and training reimbursement; professional development opportunities; employee assistance program; flexible spending plans; credit union membership; and direct deposit.

As a federal contractor, ZIN Technologies strives to comply with all applicable customer, federal, state, and local requirements, up to, and including, COVID-19 vaccine regulations. ZIN Technologies may require its employees to obtain full COVID-19 vaccination, provide proof of vaccination status as a condition of employment, provide documentation to substantiate a valid exemption, as defined by law, and/or comply with all safety protocols related to COVID testing, mask wearing, and physical distancing while in covered contractor workplaces.

**ZIN-Technologies, Inc. is an Equal Employment Opportunity Employer**  
Minority/Female/Disabled/Veteran