

Flight Safety Engineer

Middleburg Heights, OH

Responsibilities:

For Space Flight hardware and software:

- 1) Perform System Safety Engineering hazard assessments and analyses in order to:
 - i) Identify and quantify risk
 - ii) Assure compliance with NASA/Commercial safety requirements
 - iii) Provide detailed reports and recommendations for mitigation strategies
 - iv) Prepare and present technical presentations
 - v) Participate in Safety Panel Reviews
 - vi) Review flight drawings and documents, operational scenarios, and verification documents
- 2) Evaluate change orders for safety impact
 - i) Provide real-time and post-flight engineering support for flight anomaly investigations
 - ii) Work with customers (NASA, Commercial), International Partners, Principal Investigators, and other
 - iii) Payload Providers and Prime contractors
- 3) Represent system safety as a board member for Risk Review Meetings, hardware and software Change Control Boards, Design Review Boards, and Manufacturing and Hardware Delivery Readiness Review Boards.
- 4) Serve as lead system safety engineer for:
 - a) Scientific payloads to the International Space Station (ISS), including:
 - i) International Standard Payload Racks (ISPRs), namely the Fluids & Combustion Facility (FCF).
 - ii) Subrack payloads for use in the FCF, Microgravity Science Glovebox (MSG), and other ISS facilities.
 - b) Scientific payloads for the Commercial Lunar Payload Services (CLPS) program
 - c) Spacecraft system and subsystem projects, including:
 - i) Universal Stage Adapter (USA) for SLS Block-1B Crew
 - ii) Payload Fairing (PLF) for SLS Block-1B Cargo
 - iii) Environmental Control and Life Support System (ECLSS) Smoke Detector for the Habitation and Logistics Outpost (HALO)
 - iv) Rack development for the George Washington Carver (GWC) Science Park
- 5) Provide mentorship to junior safety engineers

Requirements

- **US CITIZENSHIP OR VALID GREEN CARD REQUIRED**
- Minimum 5 years of safety engineering experience in Aerospace or similarly regulated environment
- Experience providing detailed technical briefings to team members, customers and management
- Experience in requirements development, verification or assurance
- **Some travel (5%) possible, some overtime may be needed**

Preferences

- 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
- Experience in NASA Space Programs (e.g., Shuttle, Constellation, Space Station, Commercial Crew)
- Knowledge of fault tree and risk management analysis
- An understanding of system safety analysis process, as well as how to generate safety data packages and hazard reports

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