

Acoustics Engineer

Middleburg Heights, OH

Description

Candidate will support NASA Universal Stage Adapter (USA) project primarily as an analyst. The USA is utilized for NASA's Space Launch System (SLS).

Responsibilities:

- Perform high and low frequency acoustic analysis using Boundary Element Method (BEM), Finite Element Method (FEM), and Statistical Energy Analysis (SEA) to support the design of the acoustic mitigation on elements of a launch vehicle.
- Integrate low frequency acoustic resonator impedances into numerical models.
- Develop testing plans for technology development and verification of a flight design.

Requirements

- **US CITIZENSHIP OR VALID GREEN CARD REQUIRED**
- 5+ years of experience required
- Bachelor's in Aerospace, Mechanical, or Acoustics Engineering
- Experience with the following:
 - VA One SW
 - Wave6 SW
 - Spaceflight hardware
- Experience with acoustic testing; instrumentation, signal conditioning, verifying boundary & environmental conditions is required.
- Familiar with low frequency acoustic resonators, their impedances

Preferences

- Master's in Electrical, Mechanical, or Acoustics Engineering

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