

# **RF Engineer**

Middleburg Heights, OH

*ZIN is proactively searching for an RF Engineer in anticipation of future project needs.*

## **Description**

Creating RF circuit design and system integrated solutions, the candidate would be designing solutions for Space Satellite Systems using simulation tools and a specialized lab setups to realize exceptional RF performance specifications, within the challenging physical constraints and environmental conditions of launch and space.

## **Responsibilities:**

- Work closely with Mechanical Engineers and Thermal Analysts on accommodating device thermal performance.
- Understanding of comm simulations and lab measurements validates the electrical and thermal integrity of the design.
- Maturing the design using radiation suitable components and support of space qualification testing and analysis: incl. parts screening, design-margin analysis, derating, thermal test, vacuum test, vibration test, and material analysis, ensuring operational integrity on launch and in space.

## **Requirements**

- **US CITIZENSHIP OR VALID GREEN CARD REQUIRED**
- Bachelor's degree in Electrical Engineering
- 2 or more years of industry experience
- Board/module level design of RF circuits (>1GHz, <100GHz) to specific performance criteria, and physical constraints,
- Simulation and modelling using CAE Tools such as Keysight ADS, Microwave Office, Ansys HFSS, Matlab, etc.
- Hands-on prototyping skills, performance tuning, and characterization of RF circuit performance in the lab.
- Setting up and operating specialized RF lab bench setups
- >5Gbps ADCs and DACs into RF front-ends

## **Preferences**

- 4 years industry experience and
- Master's degree in Electrical Engineering. Will consider new MS graduates in lieu of experience if area of research aligns.

## **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