

# Communications Systems Engineer

Cleveland, OH

***THIS POSITION WILL REQUIRE RELOCATION TO THE GREATER CLEVELAND AREA WITHIN 6-12 MONTHS AFTER HIRE***

## **Description**

A senior level systems engineer with experience in aerospace lifecycle desired to support NASA space communication systems management.

Communications Services Project (CSP) will focus on demonstrating the feasibility of commercially provided SATCOM services to NASA missions. As a primary objective, CSP aims to demonstrate commercially provided space-based relay communications and navigation (C&N) services appropriate for NASA's near-Earth spacecraft users. The demonstrations will result in an evaluation of technical and operational performance, cost of services, business case, and security compliance to inform a recommendation for the acquisition for operational commercial SATCOM services.

## **Responsibilities:**

Provide technical and project management support to the NASA CSP Capabilities Development and Demonstration (CDD) Manager. Provide internal and external coordination and integration support for the management of the awarded Funded Space Act Agreements (FSAAs).

This individual would be a front facing technical Subject Matter Expert (SME) who could interface with senior level government and commercial technical counterparts.

The following specific tasks would be representative of the overall job function:

- Develop and maintain documents, plans, schedules, processes, and procedures
- Provide technical and logistical support for each of the performance milestone evaluations and for stakeholder and mission engagement as needed
- Evaluate and assess performance milestone entrance and success criteria in support of the validation process
- Provide logistical support for the processing of performance milestones including acceptance, payment, rejection, and postponement
- Provide technical and logistical support to administer and implement NASA's responsibilities under the FSAA's
- Facilitate communications with each industry partner through onsite and in person meetings and appropriate communications; be responsible for management of relationships, collection of required information, reporting of the vendor/team views, reporting of other concerns, and communications back to vendor/teams
- Support the government insight into the FSAA performance through onsite presence as necessary
- Prepare CDD progress reports for distribution to CSP Project Management
- Collaborate with Systems Engineering on technical evaluation & analyses

- Establish and maintain risks, and provide a mitigation approach for specific risks
- Establish and manage schedules/deliverables, requests for action and other activities as may be required
- Develop reports of partner business, logistical and issues
- Prepare presentations to support Quarterly Stakeholder Reviews covering FSAA Partner plans, updates, and activities

### **Requirements**

- B.S. Engineering in Aerospace, Electrical, Electronics, Systems, Mechanical, Computer
- **U.S. CITIZENSHIP OR VALID GREEN CARD HOLDER REQUIRED**
- 10+ years in NASA/DoD/commercial aerospace industry including work in interdisciplinary teams
- A strong project lifecycle support/management experience
- Knowledge of satellite communications: constellations, gateways, ground networks, operations, data services, solutions, user terminals, antennas; and/or the relevant markets and user requirements served (or ‘addressed’?)
- Ability to support top level requirements derivation
- Additional required skills include change management, business management, problem-solving, innovation, interpersonal skills, customer service, continued learning and agility, communication, analytics and Microsoft Office expertise
- Travel will be required domestically and internationally to meetings, site visits and for other events

### **Preferences**

- Experience with one or more of the following:
  - NASA based systems engineering
  - satellite communications architectures
  - systems architecture engineering
  - IT/cyber security
  - product and service management/development
  - project scheduling
  - NASA Tracking and Data Relay Satellite (TDRS)
  - space science and human exploration missions and requirements
  - risk management
  - radio frequency (RF) engineering
  - optical engineering including communications
  - satellite manufacturing

- Familiarity with one or more existing/planned commercial satellite communications networks and solutions
- MS/PhD

### **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