

Opening position



# Principal Systems Engineer

# Job Description

## Principal Systems Engineer

**MVG**, Is the parent company of **Orbit Advanced Technologies, Inc., (OATI)**. At OATI, we are committed to continual improvements and looking for you to help champion and drive us in this direction. We welcome candidates who will bring commitment and accountability to our tight-knit team in order to shape the future.

At Orbit Advanced Technologies, Inc., (OATI), a division of MVG, we strive to deliver the most advanced antenna and RCS measurement facilities to the U.S. aerospace and defense industry. OATI is seeking driven individuals who excel in fast-paced environments, moving novel concepts from inception to commissioning. We welcome candidates who will bring commitment and motivation into our tight knit team, helping us shape the future.

As a Principal Systems Engineer, you will lead the process of understanding customer needs, converting these into requirements, and developing technical solutions in close collaboration with the broader team. The successful candidate will use experiences in applied strategic planning and engineering implementation to lead other Systems Engineers to successfully deploy systems for microwave test and measurement systems.

### **Roles and responsibilities:**

- Demonstrates mastery of standard principles, theories, and analysis techniques to solve problems and to validate system performance and design integrity
- Serves as subject matter expert in respective scientific field or engineering discipline
- Oversees Systems Engineering at the project level, responsible for gathering system requirements and product development through life cycle of the programs
- Function as overall systems architect, responsible for total integration of multi-disciplinary engineering technologies
- Work within a diverse engineering environment to ensure the final system deliverable meets all system and quality requirements
- Utilize analysis to validate system performance and design integrity
- Collaborate within and provides expertise to our global corporate divisions for training, product development and R&D for complex projects

### **Minimum Requirements:**

- BS in electrical, Electro-Mechanical, Mechanical, Computer Engineering or Physics w/ Advanced Degree in a STEM field, management, or engineering management
- Eight (8) + years of experience in RF measurement instrumentation or relevant field w/ a minimum of three years leading Systems Engineer
- Antenna and RCS test range experience (may include near-field, far-field, compact range, etc.)

- RF and Microwave measurement systems design
- Hands on engineering inclusive of factory assembly & test, system installations, data processing, and analysis
- Proficiency in one or more of the following focus areas: Antenna modeling/design, RCS modeling/design or digital signal processing (filters and transforms)
- MATLAB, Python or other programming languages suitable for performing engineering analysis
- Strong analytical skills and the ability to solve complex problems
- US Citizen with ability to obtain security clearance
- The ability to travel intermittently to deploy and commission systems

**Desired Skills:**

- Full-wave Modeling programs (CST, FEKO, etc.)
- RF modeling tools such as ADS or Microwave office
- Strong aptitude and knowledge of mechanical/robotic positioning systems
- Image processing techniques
- Embedded Systems
- Exposure to civil engineering and construction practices

**If you are interested in this opportunity, send a Word or PDF version of your resume to: [josephm@orbitfr.com](mailto:josephm@orbitfr.com)**

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