

Job Title: RF Microwave Engineer

Requisition ID: 42168

All Locations: El Segundo, CA (California)

A trusted partner. A national resource. A leader in national security space. We are THE Aerospace Corporation. A team that takes pride in our readiness to solve some of the most complex technical challenges in existence. With challenges spanning government to commercial, you'll have the unique opportunity to work on projects that are literally evolving our nation's space and launch capabilities. We all share a common passion and aspiration – to serve a mission much bigger than ourselves. When you join our team, you'll be part of a rare collection of thought leaders and game-changing innovators. Are you ready to launch your career?

Responsibilities

SUMMARY OF RESPONSIBILITIES

In this role as an entry level/early career Microwave Engineer, you will participate in the development, analysis and evaluation of advanced space and ground-based microwave and millimeter-wave payload systems. Your hardware development, test, and analysis efforts will impact high-technology RF areas such as GaN power devices and low-noise amplifiers, wideband microwave systems, advanced measurement techniques, and cubesat advanced payloads. You will learn from the best in the field, and there will be opportunities to eventually lead projects in these areas

KEY FUNCTIONS

- Develop advanced amplifiers, transmitters and receivers, and perform microwave hardware-based laboratory measurements required to evaluate performance
- Develop wideband microwave communication systems measurement techniques
- Support development of cubesat payloads,
- Build microwave/millimeter-wave emulator test beds
- Perform circuit and full-wave simulations of microwave components, along with performance budgets for larger systems
- Work as an individual or as a team member on analytical and experimental studies to solve microwave hardware anomalies
- Document work products in briefings and/or technical reports to customers and colleagues
- Interface with Aerospace internal and external customers, and external contractors for exchange of technical information
- Candidate will work on a diverse set of projects. It is very important to be hands on, willing to learn and be comfortable in working in an environment with engineers of diverse backgrounds and expertise
- High motivation with proficiency to learn and carry out tasks with guidance/leadership of experienced staff.

Qualifications

REQUIRED QUALIFICATIONS

- Master of Science degree in Electrical Engineering and 0 - 1 years of experience with an emphasis on microwave and/or millimeter-wave hardware, measurements, and analysis/simulation
- Experience in ADS or AWR, HFSS or CST, MATLAB,
- Experience base in microwave hardware, measurement technology, and analysis
- Effective verbal, written and interpersonal communication skills.
- This position requires the ability to obtain and maintain a security clearance with an SSBI, which is issued by the U.S. government. U.S. citizenship is required to obtain a security clearance.

PREFERRED QUALIFICATIONS

- PhD degree in Electrical Engineering.
- Some experience with mixed signal components
- Some experience with RF circuit layout and instrument control

Transcript Requirement

Transcripts are required for this position.

Additional Requisition Details

System Job Title: MEMBER-TECH STF

Clearance Requirement: Secret

Access: None

Polygraph: None

Relocation Available: [[relo]]

Employment Type: Regular

Work Schedule: Full Time

Company Statement

The Aerospace Corporation has provided independent technical and scientific research, development, and advisory services to national security space programs since 1960. We operate a federally funded research and development center (FFRDC) for the United States Air Force and the National Reconnaissance Office, and support all national security space programs. We also apply more than 50 years of experience with space systems to provide critical solutions to technologically complex systems in such areas as communications, shipping, law enforcement, and cyber, among others. From our inception, our highly skilled technical staff has focused on ensuring the success of every mission and developing the most effective and economic space-related hardware and software in the world. Our greatest asset is the technical expertise of our people. Our state-of-the-art laboratory facilities are staffed by some of the leading scientists in the world.

Equal Opportunity Commitment

The Aerospace Corporation is an Equal Opportunity/Affirmative Action employer. We believe that a diverse workforce creates an environment in which unique ideas are developed and differing perspectives are valued, producing superior customer solutions. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, gender, gender identity or expression, color, religion, national origin, sexual orientation, protected veteran status, or disability status.

You can also review [The Equal Employment Opportunity is the Law](#) poster and [the supplement](#), as well as the [Pay Transparency Policy Statement](#).