

RF Design Engineer

Department: Engineering

Reports To: Manager RF Engineering

Essential Functions of the Role:

Responsibilities include but are not limited to working with Engineering staff in the design of new ground-based and airborne microwave and millimeter-wave up converters, downconverters and amplifiers. The scope of this activity includes

- Configurational, Preliminary, and Detailed Design of RF circuits and assemblies including analysis and simulation of RF performance
- Oversight and participation in integration, test, and qualification of new products and product upgrades
- Oversight and participation in the of creation of subassembly specifications, test plans, and procedures
- Support sustaining engineering activities
- **Other duties as requested by management that may include**
 - Product definition: requirements, functions and features, specification, and design objectives of RF assemblies
 - Evaluate customer requirements as they apply to upconverter and downconverter capabilities
 - Support business development activities through analysis of customer and market requirements and comparison against company capabilities. Recommend the development of new capabilities in support of market and customer needs.

Major Duties and Responsibilities:

- RF circuit design, simulation, prototyping and testing for frequencies ranging from L-band through Ka-band
- Documentation of product test procedures
- Transfer of products from Engineering to Manufacturing
- Follow new technology and research developments in industry and academia
- Follow new products and developments from competitors

Qualifications and Experience Required:

B.S. in Engineering or Physics with at least 10 years' experience in RF/microwave communications systems, component design, test and verification, or M.S. and at least 8 years' experience.

Required Skills:

- RF/microwave circuit design and test
- Analysis, design and test of frequency conversion components (up converters and downconverters)
- Analysis, design and test of local oscillator circuits (phase locked loops, frequency synthesizers)
- Facility with microwave circuit tools such as Microwave Office
- Facility with electromagnetic simulation tools such as HFSS

Additional desirable skills:

- Analysis and design of microwave/millimeter-wave Power Amplifiers.
- Analysis and design of linearizers
- Experience with project management, facility with work structures, schedules and tools such as MS Project

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Physical Requirements:

- While performing the duties of this position, the employee is regularly required typing skills.
- Must be able to lift up to 10 pounds
- Must be able to sit for an extended period of time

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations made by to enable individuals with disabilities to perform the essential functions.

Duties and responsibilities can be changed at any time at management discretion.