



Job Title: RF Design Engineer	Reports To: Sr. Dir. of Business Development
Department: Engineering	FLSA Status: Exempt
Date: September 1, 2015	EEO Code: 2 Census Code: 141

### Position Overview

Responsible for the development of microwave passive devices inclusive of concept development, design documentation, prototype design proof testing and successful manufacturing introduction. Also provides technical leadership for junior engineers, technicians and production personnel.

### Essential Job Functions

- Conceptualizes, plans, designs, develops and/or analyzes microwave passive (ferrite) devices and components for company proprietary as well as customer specified products.
- Provides training and technical support as required from concept through prototype to ensure smooth transition into volume manufacturing.
- Interfaces with manufacturing to assist with resolving production and technical problems as they occur.
- Interfaces with vendors to evaluate component specification, design requirements and component quality. Evaluates vendor delivery performance and assists in developing new vendor sources as needed.
- Develops new technology roadmaps, identifying component, design and manufacturing technologies required to maintain company competitiveness.
- Communicates with customers and potential customers on technical issues and provides applications engineering support for their new product design activities.
- Executes and communicates engineering change orders (ECO's) as required.
- Prepares technical proposals, estimates costs and manages projects from concept to product launch.
- Interfaces and works with the Customer Support and Business Development in responding to requests for quotes and opportunities for new business.

### Secondary Job Functions

- Works with Customer Support and Business Development to integrate the technology roadmap(s) into an evolving, comprehensive product management plan.
- Prepares technical papers and presentations as required to support customers, sales representatives and trade show activities.

### Requirements

- **Education/Experience:** EE/MSEE or equivalent and 5+ years Microwave Passive Design experience.
- **Supervisory Responsibilities:** This position has leadership responsibilities dealing with the Engineering Technicians.

- **US Citizenship:** Candidate must be able to qualify for a U. S. Government Secret security clearance.
- **Qualifications:** To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.
  - In-depth experience in coaxial, drop-in and waveguide isolator/circulator design and manufacturing process technology, and/or in-depth experience in design and manufacture of microwave filters, couplers, power dividers, adapters, etc.
  - Proven ability to design waveguide, and coaxial style devices in the (1-40 GHz) frequency range, design microwave passive devices (couplers, mixers, detectors, etc.).
  - Ability to apply Microwave Theory in the design, testing and troubleshooting of passive microwave devices.
  - Strong analytical and design methodology skills.
  - Knowledge of and ability to use off-the-shelf and/or proprietary EM software to develop passive microwave devices with a maximum 2-3 iterations required to achieve desired performance specifications.
  - Ability to use a variety of diagnostic and microwave evaluation and test equipment.
  - Knowledge and use of AutoCAD and SolidWorks or equivalent CAD software.
  - Proficiency with standard computer SW packages - Microsoft Word and Excel.
- **Physical Demands:** The physical demands are representative of those that must be met by an employee to successfully perform the essential functions of this job.

Reasonable accommodations will be made in accordance with federal law to enable individuals with disabilities to perform the essential functions. It is essential that each employee interact with M2 concerning such accommodation to attempt to assure the employee's effectiveness, safety, and health concerns within the meaning of the law.

- **Work Environment:** The work environment characteristics are representative of those an employee encounters while performing the essential functions of this job. The job is performed in both an office and a manufacturing environment.

M2 Global Technology, Ltd. maintains a work environment based on team-based management. All employees are expected to adhere to the philosophies and charter necessary to support and foster a team based environment, including, but not limited to, encouraging and supporting team members when applicable and maintaining a high degree of discipline, respect and trust.

NOTE: This job description is not intended to be all-inclusive. Employee may perform other related duties as required to meet the ongoing needs of the organization.