



Date: 17 December 2020

Job Description Principal RF Design Engineer

JOB REQUIREMENT SUMMARY: Provide engineering analysis and system specifications for Tampa Microwave's (TM) communications products.

- Design, analysis, development, and integration of land-based satellite communications (SATCOM) receive/transmit modules, modem modules, power supply modules and antennas and / or related Radio Frequency design / manufacturing companies.
- Ability to decompose top-level system requirements into lower-level hardware requirements that enables design and development of modular RF products.
- Serve as Lead Project Engineer in the development of system-level hardware and software requirements for new or improved ground-based SATCOM products: Transceivers, modems, antennas, and systems.
- Able to perform link budget analysis for GEO / MEO / LEO satellite ground-based SATCOM terminals operating at X-, Ku- and Ka-band.
- Serve as interface with satellite providers and government entities that issue certifications that permit our terminals to operate on systems such as Inmarsat, SES, FCC and the DoD's WGS constellations. Collect and review technical data prior to submission.
- Develop test specifications and verification matrices that facilitate the conduct of testing to determine hardware / software compliance to Mil STD and industry standards of performance. Analyze test data to identify non-compliances and lead the engineering team in identifying corrective action.
- Enforce and contribute to the company's structured design process that stretches from hardware / software requirements generation through production transition to aftermarket support. Accomplish this task through development of system requirements for TM products, participation in system requirements reviews, design reviews and production readiness reviews. Ensure that requirements traceability exists in all performance specifications issued to the Company's suppliers.
- Coordinate evolving technical requirements with business development personnel to ensure TM develops the technology required to meet future requirements in our marketplace. Create system requirements and architectures that support the company's business development strategy.
- Participate in the Company's make / buy decisions for key technology.
- Participate in proposal preparation. Identify and incorporate themes that are



important to customers into our written submissions. Join in pricing reviews to identify risks to cost, schedule and technical performance.

- Communicate with and cultivate productive relationships with current and potential customers.
- Exhibit the following personal characteristics: superior communication skills, sound judgment, effective listening techniques and incisive deductive reasoning ability.
- Openly display a commitment to ethical business conduct and appropriate social behavior while representing TM on or off our premises.

Qualifications:

- A minimum of 15+ years in design, analysis, development, and integration of land-based satellite communications (SATCOM) receive/transmit modules, modem modules, power supply modules and antennas and / or related Radio Frequency design / manufacturing companies.
- Bachelor of Science Degree from an accredited college or equivalent experience in a technical discipline required; A graduate degree: Master's or PhD in engineering and/or advanced courses in technical management, engineering or science subjects is preferred.
- Ability to obtain a Government security clearance required.

TRAINING PERIOD: Responsibility of position requires minimal orientation period. Continual development process through reading materials, seminars, conferences, trade shows, etc.