Electrical Engineer – Microwave/RF Power Electronics

Starfire Industries, LLC is adding to our technical team to support applied R&D and production activities. We seek a person with RF/microwave power electronics and electrical hardware systems experience eager to apply knowledge company-wide. Building on your base skill set with solid-state LDMOS/GaN or tube amplifiers and electronics aptitude building RF drivetrains, we will provide job-specific training unique to our products and technologies. You will enjoy "hands-on" work and being part of an applied science team.

This position is eligible to earn an "on-the-job" Masters of Engineering (M.Eng.) Degree through a professional program between Starfire and the University of Illinois at Urbana-Champaign Electrical Engineering. If eligible, accepted into the program and meeting requirements, Starfire will reimburse tuition costs for the M.Eng. while working 75% full time over a two-year period. The M.Eng. practicum will be directly relevant to work at Starfire.

Job Summary:
Responsible for component selection, circuit layout, assembly, testing, debugging, and validation for RF/MW subsystems working closely with R&D for system-level prototype integration. Primary role Centurion® and support for nGen® and RADION™ product lines. Support production teams as needed.

Primary Responsibilities:

- Develop RF/MW power electronics subsystems from conceptual design through electronics test/debug into prototype and production assembly deliverables.
- Support RF/MW electromagnetics design, simulation, and testing for R&D teams.
- Communicate consistently and openly with engineers, technicians, and managers.

Required Qualifications:

- Relevant Electrical Engineering or Microelectronics degree
- Strong desire to learn and appreciates hands-on (re)work.
- Proficient with RF/MW test equipment, electrical schematics, and mechanical drawings
- Experience with solid-state and electron-tube power amplifiers and circuit design
- Ability to take initiative, assume responsibility and work independently.

Desired

- Minimum 3+ years' work experiences
- CNC mill, PCB layout, proven ability to multitask (e.g., handle projects in both R&D prototyping environment and production facility)
- RF/microwave circuit, cavity and antenna design experience and/or 3D electromagnetic simulation experience using Sonnet, COMSOL, CST Microwave Studio or Ansys HFSS
- Experience with high-power staged GaN or LDMOS solid-state, or high-power tube amplifiers
- Analog/digital communications and controls
- High-voltage design experience (>1kVdc)

Salary commensurate with experience. Immediate start date. To apply, send resume and cover letter to **hr@starfireindustries.com**. This position is restricted to U.S. Persons only.