

Senior RF Engineer

Location: Sugar Land, Texas

Job ID: SDHESTX

Wireless Seismic, Inc. is introducing a revolutionary new seismic exploration recording system to the energy industry. This exciting new product combines technologies from the seismic, wireless, and mesh network industries, with the initial version of the system successfully field-tested.

As a **Senior RF Engineer** you will provide technical expertise in system solutions and in RF design for the development of the RF communication subsystems of a proprietary seismic acquisition system intended for general consumption in the oil and gas exploration market, of which the foreseeable products include seismic acquisition, access-point, and backhaul field devices, and a central recording system truck-interface including system-timing, aux-channel and source control interfaces.

Essential Duties & Responsibilities:

- Lead effort in the development and testing of RF subsystems for FCC compliance, including evaluation and recommendations for other system components that may affect the FCC compliance of the system as a whole.
- Design, develop and test RF/analog hardware and circuitry, including but not limited to: synthesizers, filters, matching circuits, front ends, RF switching, small signal amplifiers, power amplifiers and microcontroller interfaces, through board-level integration of RF components and embedded processors.
- Support radio system design tasks, including field-testing radios, waveform testing, software/FPGA interfaces, GPS and antennas.
- Work with embedded systems team to develop the proprietary command and control protocols for all high-speed RF real-time subsystems.
- Prepare for and participate in hardware design reviews as needed for both personal and peer tasks. Participate in subsystem integration tasks when required.
- Write appropriate statements of work and specifications, based on product requirements, to communicate the engineering intent to Product Marketing and Company management, for your area of responsibility.
- Support evaluation of prototype devices through bench and field-testing.

Experience & Educational Requirements:

- Bachelor's Science degree in Electronic Engineering required. MSEE preferred.
- Minimum five (5) year's directly applicable expertise required.
- Minimum of (3) year's experience in designing and/or modeling RF systems required.
- A broad background in RF subsystem design is highly desirable.
- Proven and demonstrated experience with testing and troubleshooting radios and RF circuits using RF test equipment such as: Spectrum Analyzers; Network Analyzers; RF Signal Generators, etc.
- Field-testing and system integration experience preferred.
- Seismic application and industry experience a plus.



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Skill & Competency Requirements:

- There is a reasonable amount of autonomy in determining how to plan and structure working time so the role holder needs to be disciplined and self-managing. It is necessary to be self-reliant, and self-driven, with the ability to multi-task and balance priorities.
- Able to identify and analyze problems in a systematic but timely manner, drawing correct and realistic conclusions based on data and information, and accurately assessing root causes before moving to solutions.
- Ability to balance multiple competing projects and to communicate project status, issues and requirements efficiently.
- Ability to work collaboratively in a team environment, and negotiate solutions amongst cross-functional groups, e.g.: Manufacturing, Engineering, Software Engineering and others, is a key success factor.
- Ability to produce clear and concise documentation of test data, and radio performance using MS Word and Excel.

We consider our employees as our most important resource. To share in our success, we look for energetic individuals, with an entrepreneurial spirit, and an appetite to be on the cutting edge with a leader in seismograph technology.

Wireless Seismic, Inc., is an Equal Employment Opportunity Employer. We recruit, train, compensate and promote without regard to race, color, national origin, gender, age, sexual orientation, veteran's status or disability.

If you are interested in this position, please email your resume and salary requirements to: careers@wirelesseismic.com, and reference the position in the subject line.