wirelessSEISMIC

Position: Senior Wireless Back-haul Engineer
Location: Louisville, Colorado

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 Wireless Back-haul Engineer** you will drive the development of the back-haul solution for the Company, through collaboration with Engineering, Product Development, Mechanical and Hardware organizations and partnerships with 3rd Party Providers of wireless back-haul products and solutions.

The **Senior Wireless Back-haul Engineer** will provide technical expertise and guidance in assessing the strengths and weaknesses of using off-the-shelf versus developing in house back-haul solutions for the company; and you will be expected to provide leadership and overall responsibility for the maintenance of current solutions and the implementation of new solutions in this area.

Essential Duties & Responsibilities:

- Serve as a Technical Lead for the development, and ultimate implementation of a wireless back-haul solution.
- Drive the creation of a strategic technical plan for a permanent back-haul solution.
- Serve as the operational driver/lead for the implementation of the permanent backhaul solution.
- Once high-level requirements are received from Product Development, create all detailed back-haul engineering specifications and technical documentation.
- Manage partnerships with 3rd party providers of back-haul solutions.
- Incorporate feedback from field, and prioritize improvements back to partner or internal Mechanical/Hardware group.
- Document best practices for back-haul for incorporation into technical documentation.
- Define of the collection of RF performance parameters to track performance and identify bottlenecks, e.g.: retransmission, RSSI, noise, packets in error, latency, jitter, packet error, etc., for each link with GUI to display at the central data collection point.
- Review schematics, board layouts and unit assembly to debug RF performance issues.
- Support radio system design tasks, including field-testing radios, waveform testing, software/FPGA interfaces, GPS and antennas.
- Support evaluation of prototype devices through bench and field-testing.
- Perform coverage/capacity field-tests (vegetation), as needed.

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.

Experience & Educational Requirements:

- Bachelor's Science degree in Electronic Engineering required. MSEE preferred.
- Minimum eight (8) year's directly applicable expertise required.
- Minimum of five (5) year's experience in designing and/or modeling RF systems, interference mitigation and performance optimization required.
- A broad background in RF subsystem design is highly desirable.
- Fundamental knowledge and expertise in 2.4 GHz and 5.8 GHz frequency bands required.
- 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.

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

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

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.