

Job Title: **Senior Embedded Real-time Software Engineer**
Department: Engineering
Reports to: Manager, Firmware Engineering
Location: Sugar Land, Texas

Wireless Seismic, Inc. is introducing a revolutionary new exploration seismograph to the energy industry and is currently rounding out its Houston development team. This exciting new product combines technologies from the seismic, wireless and mesh network industries and an initial version of the system has been successfully field tested.

The company is funded by a large domestic energy company whose primary interest is to accelerate the development of the wireless system for use by its seismic contractors. The Company has recently opened new offices in Stafford, TX and Louisville, CO. Our employees are the key to our success and we look for energetic individuals with an entrepreneurial spirit that want to be part of our success in being the cutting edge leader in seismograph technology.

As a **Senior Embedded Real-Time Software Engineer** you will participate in the embedded software development of the real-time subsystems of a proprietary seismic acquisition system intended for general consumption in the oil and gas exploration market. 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 and Accountabilities:

- Design and develop seismic data command, control, collection and process handling applications for all real-time subsystems.
- Participate in system and subsystem integration tasks, when required.
- Support systems test and field service organizations to ensure products meet performance and reliability specifications, as required.
- Assist in configuring and maintaining appropriate tools, operating systems, computer hardware, and communication interfaces to implement the product as described.
- Participate in the use and maintenance of appropriate standards and processes related to software engineering, for example, coding standards, source control, and defect maintenance.
- Participate in project scheduling, bringing your experience to bear, to produce reasonably accurate task lists and project timelines.
- Keep accurate records of project status and report as needed into the management organization.
- Assist management in providing guidance and support, and technical leadership, to the embedded software engineering team.
- Prepare for, and participate in, design and code reviews as needed for both personal and peer tasks.

Skills and 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.
- Possesses strong interpersonal skills. Builds and maintains positive, productive relationships with associates, colleagues and suppliers.
- Adept in listening, written and oral communication skills.

Education and/or Experience:

- BSEE, BSCS or BSCE required.
- Minimum eight (8) years experience with hardware and software designs for real-time and embedded systems required.
- Extensive experience programming in C required.
- Extensive hardware experience in working on a variety of single board computers and embedded microcontrollers required.
- Experience with Logic analyzer, and JTAG debugger required.
- Experience using Super Loop style OS (No multi-tasking style OS) required.
- Demonstrated knowledge of electronics hardware, real-time computing including operating systems and primitives, state-machines, and proprietary to mainstream messaging architectures required.
- Experience in documenting and compliance with coding standards, source control and defect maintenance required.
- Demonstrated experience in all stages of development, from the initial concept, proposal and requirements definition stage, through the design, development, and test phase required.
- In-depth experienced in testing methodologies for embedded software desired.
- Experience with formal project scheduling and reporting processes desired.
- Seismic application and industry experience a plus.

Other Requirements:

- Extended or non-traditional work hours may sometimes be required.

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.

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.

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.