

## **Electrical Engineer**

**Job ID:** 2308

**Location:** Lebanon, New Hampshire

**Job Type:** Full-Time, Exempt

White River Technologies, Inc. is a small, high-tech company focused on research & development, testing, evaluation, and commercial support services for geophysical sensor and software technologies. Located in Lebanon, New Hampshire and Newton, Massachusetts, our scientists and engineers are developing new technologies that utilize magnetic, electromagnetic, radar, acoustic and electro-optical sensing for defense, environmental, and energy applications. We are recognized as a national leader in explosive hazards detection and classification technology development and have a reputation for building innovative solutions to complex problems.

We are seeking an electrical engineer to join our growing R&D team. The candidate will contribute technical expertise for the research, design, development and implementation of next generation sensor-related technology for remote characterization of environmental, military, and civil infrastructure applications. Responsibilities include prototyping systems and helping to design, fabricate, and test electrical hardware and embedded software systems that enable high quality geophysical sensor data acquisition and processing. Sensing hardware may include magnetic, electric, electromagnetic induction, ground penetrating radar, acoustic, and optical sensors. The successful candidate will perform various prototyping, signal and data acquisition/interface tasks, and electronic circuit designs. These designs include digital circuitry in the form of programmable microcontrollers, FPGAs and microprocessors, analog circuitry mainly in data acquisition and conditioning circuits, as well as fiber optic, copper, RF, and electromagnetic components. The candidate will apply knowledge of state-of-the-art electronics and embedded system design as well as processes. Platforms implementation may include man-portable, vehicle-towed, or tele-operated systems applied to terrestrial, airborne and marine surveys in support of DOD, DOE, and DOT characterization activities. The successful applicant will have a desire to work both in the laboratory and outdoors in a team environment.

### **Essential Duties and Responsibilities**

- Design and fabrication of sensor and data acquisition platforms
- Invent and prototype new embedded digital system designs
- Perform system design and integration and document work in reports and manuals
- Prepare work plans, reports, and proposals
- Travel to field sites to test and evaluate custom and commercial geophysical sensors
- Work as a member of a team and explore ways to improve our quality, better serve our clients, and innovate new solutions

### **Education, Experience, and Skills**

- Master's or Ph.D. degree in Electrical Engineering or related electronics field.
- 1-10 years of experience with sensors, electronics, and/or embedded systems
- Familiarity with microcontroller and C language programming
- Knowledge of electronic design and assembly and PCB manufacturing
- Experience with sensor data acquisition and/or survey systems
- Demonstrated aptitude to learn new technologies, positive team-oriented attitude, and flexible and perseverant work ethic

*Please submit all resumes and correspondences to [jobs@whiterivertech.com](mailto:jobs@whiterivertech.com) and reference the Job ID in the subject line.*