



## **Software Systems Engineer**

**Job ID: 1704**

**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 and Computer Engineer to join our growing R&D team in geophysical sensing technology development. The candidate will be responsible for supporting innovative, high-impact, practical research in small, focused teams. He/she will participate in all phases of R&D including problem analysis, innovative solution design, system architecture, rapid prototyping, field testing, and transfer of the technology to end-users. Our R&D focuses on a wide range of geophysical sensing technologies: from aerial drones to deep ocean unmanned platforms, to handheld devices and miniaturized sensors, to high-performance embedded and cloud-based computing. Work will include design, development and implementation of software technology solutions in a variety of development languages and environments. The successful candidate will gain experience in embedded- and application-level software design, delivery, test, image and signal processing algorithms development, navigation and controls algorithms development, user interface and modeling/simulation applications development. Technologies includes new initiatives in systems design, data analytics/forensics, data mining, and man-machine interfacing for magnetic, electromagnetic/RF, acoustics, electro-optical and positioning/navigation/timing systems.

### **Essential Duties and Responsibilities**

- Proficiency in software design and architecture including performance verification and validation at both component and system levels. documentation, and implementation
- Software design, development, delivery, and support experience in C, C++, Java or similar languages. Proficiency and interest in additional languages such as MATLAB, Python, Pearl, Android, Ruby, and/or Clojure.
- Proven ability to construct and utilize modeling, simulation, and probability/statistics to predict and quantify results in numerical analysis environments such as MATLAB, IDL, or R.
- Utilization and development of software revision control tools (CVS, Subversion); understanding of software quality processes including debugging, static analysis tools, test harnessing and other troubleshooting and verification/QA methodologies.

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

- Bachelor's, Master's, or PhD degree in Computer Engineering, Electrical Engineering, Computer Science, Applied Mathematics or other technical field.
- 1-10 years of experience working with sensor systems, robotics, digital electronics/software programming including experience with laboratory and field instrumentation
- Preferred familiarity with electromagnetic, RF, and/or electro-optical sensor systems
- Demonstrated aptitude to quickly learn new technologies required
- Strong ability to work in a team environment
- Excellent oral and written communication, publication, and client interfacing skills require

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