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## **Senior Electrical Engineer Job Description**

Ridgetop Group seeks a Senior Electrical Engineer to contribute to the research and development of innovative component- and system-level diagnostic and prognostic solutions at its headquarters in Tucson, Arizona. Potential applications include field programmable gate arrays (FPGA), electronic power systems (EPS), electromechanical actuators (EMA), and electronic warfare systems (EWS). This position requires involvement in all phases of the product development lifecycle, including requirements, design, validation, deployment, documentation, and maintenance.

### **Responsibilities**

- Manage the design, layout, assembly, and debug of circuit boards
- Design automated test procedures to validate and characterize electronic systems and components
- Design and conduct laboratory experiments in support of new prognostic methodologies and solutions
- Support process improvement activities both within the department and company-wide
- Work both independently and in a team environment, with the opportunity to provide technical leadership to other members of the engineering team
- Create and/or modify specification documents detailing system design and enhancements to meet marketing requirements
- Collaborate with others in the creation of technical reports, whitepapers, and user documentation
- Provide on-going client support and maintenance

### **Requirements**

- EE degree with at least 5 years of design and/or test engineering experience
- Use of simulation environments such as MATLAB and PSPICE
- Use of schematic capture/layout tools such as Eagle
- Use of version control tools such as Subversion
- Use of Microsoft Excel for storing and analyzing data
- Familiarity with LabVIEW and National Instruments data acquisition systems
- Knowledge of communications protocols, including RS-232, CAN, and TCP/IP
- Strong circuit design and problem solving skills
- Strong communication skills, both written and verbal
- Strong time management, task prioritization, and interpersonal skills
- Ability to multi-task and work independently as well as part of a team
- Ability to rapidly grasp technical concepts and solutions
- High level of personal drive and self-motivation

- Commitment to continuous improvement
- Embedded systems design and firmware development experience is desirable
- Language-based FPGA programming is a plus, particularly with Xilinx and Altera tools
- Some travel may be required for this position
- **Due to the nature of the projects we work on, US citizenship or legal permanent US residency status is mandatory.**

### **Job Terms**

This is a full-time (40-hours per week) position on-site in Tucson, Arizona.

Ridgetop offers significant growth opportunities, competitive compensation and benefits package, including stock options, medical, dental and disability insurance, tuition reimbursement, and an Employer-matched retirement plan.

Ridgetop Group, Inc. is an equal opportunity employer.

**To apply for this position, please send your resume, references, and cover letter with salary expectations to: [jobs@ridgetop-group.com](mailto:jobs@ridgetop-group.com).**