

Sr. Electronics Engineer

Ridgetop Group seeks a Senior Electronics Engineer to contribute to the research and development of innovative component- and system-level diagnostic and prognostic solutions at its headquarters in Tucson, Arizona. The successful candidate will join a team designing new system development, and novel diagnostics and prognostics algorithm development capabilities. This position requires involvement in all phases of the product development lifecycle, including requirements, research, design, validation, documentation, release, 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, proposals, whitepapers, and user documentation
- Provide on-going client support and maintenance

Requirements

- MS in Electrical, Computer, Mechanical or Aerospace Engineering, Computer Science, or in a related field. BS with 5 years of relevant experience also acceptable
- Use of: simulation environments such as MATLAB and PSPICE; schematic capture/layout tools such as Eagle, version control tools such as Subversion, 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; 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
- Embedded systems design and firmware development experience
- Language-based FPGA programming is a plus, particularly with Xilinx and Altera tools

The desired optional skills:

- Fault detection and diagnosis methods
- System diagnostics and prognostic expertise
- Digital signal processing algorithms
- Proficiency in LabVIEW
- Experience in proposal writing
- Experience in power systems and electrical engineering systems a strong plus
- Experience in Prognostics Health Management (PHM) industry not strictly required, but a strong plus

U.S. citizenship or permanent U.S. residency (Green Card) is required.

Ridgetop Group, Inc. is an equal opportunity employer. Ridgetop offers significant growth opportunities, competitive compensation, and a benefits package including stock options, medical, dental and disability insurance, tuition reimbursement, and an employer-matched retirement plan.

If you are interested in joining Ridgetop, an innovative small company in Tucson, Arizona, and meet the above criteria, please send a resume and cover letter to: jobs@ridgetopgroup.com