

Senior Software Engineer

Ridgetop Group seeks a Senior Software Engineer to lead the research and development to provide its customers with advanced diagnostic and prognostic solutions for critical applications, 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, design, validation, documentation, release, and maintenance.

Basic Qualifications:

- MS in Electrical, Computer, Mechanical or Aerospace Engineering, Computer Science, or in a related field. BS with 5 years of relevant experience also acceptable.
- Very strong analytical skills
- Strong background in probability and statistics
- Experience in system modeling and optimization, preferably using MATLAB
- Strong programming skills and GUI design
- High level of personal drive and self-motivation
- Commitment to continuous improvement
- Strong communication skills, both written and verbal

In addition to those basic qualifications, at least some of the specific skills listed below are highly desired. Not all of these are expected to be found in a single candidate, but a solid mix of most of them is strongly preferred. The key personal qualities are an innovative and curious mind, ability and willingness to learn new skills, and most importantly an enthusiastic attitude toward developing new technologies.

The desired optional skills:

- Statistical estimation, filtering, pattern recognition, classification, prediction
- Optimization and optimal control
- Fault detection and diagnosis methods
- System diagnostics and prognostic expertise
- Reliability analysis
- Digital signal processing algorithms
- Proficiency in LabVIEW
- Embedded programming skills a plus
- 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
- Experience with health and usage monitoring systems (HUMS) 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