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**Engineer/Scientist Technical Lead and Project Manager**

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This position requires work on DoD contracts that require US Citizenship status.

Sporian Microsystems conducts research and development that is at the forefront of science and technology. We focus on advanced sensors for applications in aerospace, energy generation, IIoT, and related industries. At Sporian, you will be involved with developing sensors and sensor systems from the conceptual stage through proof-of-concept development, detailed development, testing, and fielding. Sporian is a small, technically focused company. At Sporian, you will work in a collaborative environment on multidisciplinary teams with highly talented peers from a wide range of technical disciplines who have a passion for solving difficult problems in unique ways.

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Sporian Microsystems, Inc. is currently looking for an individual to lead R&D and engineering effort on a range of Sporian projects. This position will provide technical contribution and leadership for efforts relating to device/system design, fabrication, and testing in a highly hands-on work environment for projects relating to: harsh environment sensors, environmental sensors, chemical/biological sensors, wireless sensors, optics, and electronics packaging development. Individuals in this position would be expected to:

- Lead small multi-disciplinary teams of 3-6 people while also continuing to make significant technical contributions to the projects they are managing, with a focus on successfully delivering results on R&D projects and pushing those results toward productization.
- Plan, prioritize, and manage engineering projects to ensure that the team's overall resources are used effectively and that project objectives and deadlines are met within allotted budgets.
- Prepare technical reports based on project findings, data analyses, status, schedule, and budget to communicate to coworkers and customers.
- Work closely with other engineers/technical staff, customers, and suppliers, and assist in the development of new project plans, specifications, proposals, and system and subsystem designs.
- Technically contribute to engineering and R&D activities in support of a range of new and evolving projects and technologies, potentially also supporting efforts under the direction of other technical leads.

Sporian will consider a broad array of candidates with diverse backgrounds and select a candidate that provides the best overall fit for the varied needs of the company.

**Education and Experience Requirements:** This position requires a professional with a BS degree and at least 5+ years relevant experience or a MS/PhD degree with 2+ year's relevant experience. Degrees in mechanical engineering, electrical engineering, engineering physics, physics, applied mechanics, materials science, materials engineering, or other similar scientific fields are suitable. Experience in a related industry is also highly desirable.

**Required Skills/Qualifications:**

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- Ability to provide general R&D support and project management to a range of projects in a multi-disciplinary team environment.

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- Prior experience contributing to design/fabrication/operation of prototype systems, test-bed hardware, and critical experimental activities including design, setup, control, and reporting.
- Ability to perform analytical/numerical analyses to support prototyping, feasibility, and characterization efforts. Data collection and applying mathematical techniques to the analysis of data sets.
- Ability to contribute to vendor, supplier, processing, and piece-part reviews to determine suitable/optimal solutions.
- Ability to support report, proposal, and bid preparation activities requiring strong written and verbal communications skills.
- Ability to quickly transition between disparate efforts and responsibilities.

**Desirable (but not required) Technical Experience:**

- Sensing and monitoring instrumentation system design and operation
- Smart systems, including digital electronics and embedded systems operations
- Mechanical CAD software competency, particularly SolidWorks
- Knowledge of high temperature (>1000°C) operable materials, processes, and equipment.
- Optics and optoelectronics technologies and operational fundamentals, including: opto-mechanical hardware design, free space, and fiber optic optical systems
- Knowledge of optics and optical spectroscopy, Raman spectroscopy and/or hyper-spectral imaging
- Mechanical, optical, and electronics testing methodologies and systems
- Strong prior hands-on experience/skill with hardware design, fabrication, testing, characterization, and troubleshooting.
- Developing mathematical models of physical phenomena to support research protocols and the operation of research devices
- Experience in product development
- Experience leading a team through technical development or in project management
- Experience interfacing with government agencies and/or working under federally funded research programs, for example the SBIR program

**Additional Expectations:**

- Life-long learner
- Multi-tasking
- Flexible
- Team player
- Self-motivated
- Self-starter
- Detail oriented
- Customer oriented
- Excellent written and verbal communication skills
- Proficient with MS Office
- Proficient with Internet

**Physical Context/Work Environment:** Sporian Microsystems, Inc. is conveniently located in Lafayette near to US-287 in Boulder County, and close to Broomfield, Louisville and Erie. Work is typically

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conducted in both an office environment and a lab environment with occasional travel locally to nearby businesses and infrequent travel both domestically and internationally.

**How to apply:**

- Include a cover letter that describes how your skills and experience fulfill the above requirements.
- Email your cover letter and resume to [TL2001@sporian.com](mailto:TL2001@sporian.com).
- Reference: "W – Engineer/Scientist Technical Lead and Project Manager" in the subject line of your email.

We are an equal opportunity employer. Qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, or national origin.