

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.

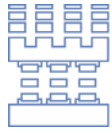
### **Mechanical Engineer**

Sporian Microsystems, Inc. is currently looking for a mechanical engineer to provide R&D and engineering support on a wide range of Sporian projects. This position is to primarily provide technical assistance 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, optical sensing systems, optics, and electronics packaging development. In addition to hands-on work, this position is expected to work closely with project managers and other engineers/technical staff in small multi-disciplinary teams, along with customers and suppliers, and assist in the development of project plans, specifications, proposals, and system and subsystem designs. 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 or MS degree in Mechanical Engineering or a closely related field. Experience in a related industry is also highly desirable.

### **Required Skills/Qualifications:**

- This position requires work on DoD contracts that require US Citizenship status.
- Bachelor's degree and 4+ Years of experience in mechanical design roles. A Master's or Doctoral degree may be considered in lieu of professional experience. Compensation is commensurate with experience level.
- Strong hands-on experience/skill with hardware design, fabrication, testing, characterization, and troubleshooting.
- Strong experience with mechanical CAD software (SolidWorks preferred) and the ability to produce part and assembly designs as well as detailed drawings of complex components.
- Ability to contribute to fabrication/operation of prototype systems, test-bed hardware, and critical experimental activities including design, setup, control, and reporting.
- Ability to perform basic analytical/numerical analyses to support design, prototyping, feasibility, and characterization efforts.
- Ability to provide general R&D support to a range of projects in a multi-disciplinary team environment.
- 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:**

- Experience leading a team through technical development or in project management
- Sensing and monitoring instrumentation system design and operation
- 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
- Knowledge of high temperature (>1000°C) operable materials, processes, and equipment
- Smart systems, including digital electronics and embedded systems operations
- Mechanical, optical, and electronics testing methodologies and systems
- Developing mathematical models of physical phenomena to support research protocols and the operation of research devices
- Experience in product development
- 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 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 [ME2008@sporian.com](mailto:ME2008@sporian.com).
- Reference: "W – Mechanical Engineer" 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.