

Join the world leader in thermal mass flow meter technology. FCI began in 1964 by pioneering the development and application of thermal dispersion flow and level sensing technology. The Company is the world-recognized leading manufacturer for solving flow and level measurement applications for industrial process and plant applications using patented thermal dispersion flow measurement technology.

From off-the-shelf product solutions to custom engineered products and systems, FCI provides world leading experience and a record of unequalled innovation to meet or exceed our customer application demands. Complimenting FCI product leadership is a world class Flow and Level Calibration Facility in which all calibrations are performed in liquids or gases utilizing only N.I.S.T. traceable equipment and instrumentation.

Currently, we are seeking a Electrical Engineer 2 for our Nuclear division.

**Position Purpose:**

Under the supervision of the Engineering Manager, the Electrical Engineer 2, Nuclear is responsible for electrical circuit design/troubleshooting and the support of the development /qualification test activities for FCI Nuclear product used in commercial nuclear power, research, and government applications.

**Essential Job Functions (primary duties and outputs of position):**

- Create and revise engineering documentation including drawings, parts lists, schematics, artwork, operation sheets, manufacturing procedures, factory acceptance test procedures, maintenance and troubleshooting manuals, prototype and qualification test procedures.
- Makes recommendations to implement design improvements, streamlining of manufacturing processes and reducing product cost.
- Makes recommendations on the selection and design of test equipment.
- Support product proposal design, cost estimates, and schedule.
- Supports technical discussions with customers such as design reviews.
- Supports new product development including creating system design specifications, schematics, board layouts, prototype testing, design iteration, manufacturing, factory acceptance testing, and maintenance and troubleshooting manuals.
- Supports existing product maintenance and component obsolescence issues.
- Supports manufacturing, troubleshoots equipment and implement solutions.
- Other duties as assigned.

**Safety**

- Responsible for following safe work practices, participating in safety training as required, and reporting any unsafe condition or accident.

**Quality**

- Understands and supports the quality policy and the appropriate elements of the quality management system for their areas of work.
- Dedicates efforts to the reduction, elimination, and prevention of quality deficiencies.
- Initiates action to prevent the occurrence of nonconformities related to product, process, and quality system.

### **Communication Management**

- Maintains effective and constructive working relationships with others both internally and externally.
- Prepares effective reports and presentation of departmental information.

### **Education/Work Experience Requirements:**

- BSEE with 3 or more years' of progressive work experience in designing analog and digital circuitry (with focus on analog op-amp circuits, comparators, signal conditioning, and filters).
- MSEE with 1 or more years of progressive work experience in designing analog and digital circuitry (with focus on analog op-amp circuits, comparators, signal conditioning, and filters).
- Experience in circuit design tools, schematic capture, layout fundamentals, SPICE, analog circuitry, low-level voltage signals, and instrumentation and control systems
- Ability to troubleshoot electrical equipment and develop solutions.
- Experience writing failure analysis reports.
- Must be able to read, write, and speak in English.
- Must possess excellent technical writing skills.
- Must be proficient in MS Office tools; Word, Excel, Power Point.
- Experience with compliance to CE requirements, IEC61010, EMC, and LVD
- Experience with prototyping is a plus.
- Experience with software V&V per IEEE1012 is a plus.
- Experience with nuclear quality standard NQA-1 is a plus.
- Experience with ORCAD is a plus.
- Experience with analog/digital converters is a plus.

### **Physical/Travel Requirements:**

- This position requires sitting for extended periods of time while using a computer. Minimal walking, standing, bending is required. Some travel may be required and therefore must possess a valid driver's license.

These duties may be modified or changed at any time at the sole discretion of management either orally or in writing. The above statements are not to be construed as an exhaustive list of all responsibilities, duties, and skills required of this position. All personnel may be required to perform duties outside of their normal responsibilities from time to time, as needed.

FCI is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex including sexual orientation and gender identity, national origin, disability, protected Veteran Status, or any other characteristic protected by applicable federal, state, or local law. If you are qualified individual with a disability or a disabled veteran, you have the right to request an accommodation if you are unable or limited in your ability to use or access our career center as a result of your disability. To request an accommodation, contact a Human Resources Representative.

FCI is an ITAR required employer and active participant of the DHS and SSA E-Verify program. Contract requirements for ITAR identify US citizen or permanent resident alien in the absence of ECCN.

