

Position: Process Engineer

Location: Danbury, CT

About Our Company:

FuelCell Energy, Inc. (NASDAQ: FCEL) is a global leader in developing environmentally responsible distributed baseload power solutions through our proprietary fuel cell technology. We develop turn-key distributed power generation solutions and operate and provide comprehensive services for the life of the power plant. We are working to expand the proprietary technologies that we have developed over the past five decades into new products, markets and geographies. Our mission and purpose remains to utilize our proprietary, state-of-the-art fuel cell power plants to reduce the global environmental footprint of baseload power generation by providing environmentally responsible solutions for reliable electrical power, hot water, steam, chilling, hydrogen, microgrid applications, and carbon capture and, in so doing, drive demand for our products and services, thus realizing positive stockholder returns. Our fuel cell solution is a clean, efficient alternative to traditional combustion-based power generation and is complementary to an energy mix consisting of intermittent sources of energy, such as solar and wind turbines. Our systems answer the needs of diverse customers across several markets, including utility companies, municipalities, universities, hospitals, government entities and a variety of industrial and commercial enterprises. We provide solutions for various applications, including utility-scale distributed generation, on-site power generation and combined heat and power, with the differentiating ability to do so utilizing multiple sources of fuel including natural gas, Renewable Biogas (i.e., landfill gas, anaerobic digester gas), propane and various blends of such fuels. Our multi-fuel source capability is significantly enhanced by our proprietary gas-clean-up skid.

Overview:

We are currently seeking a highly motivated Process Engineer to join the multi-disciplinary Advanced Technology team responsible for designing advanced fuel cell-based systems for both power generation and carbon capture applications.

Responsibilities:

The Process Engineer will be responsible for all aspects of process design, with a focus on new process development and simulation. This position requires flexibility to work on multiple projects, covering a range of systems and technologies, in various stages of the design or validation process.

- Develops Heat and Material Balances (H&MBs) using process simulation software tools with minimal supervision.
- Creates and/or updates Process Flow Diagrams (PFDs) and Piping and Instrumentation Diagrams (P&IDs) with minimal supervision.
- Develops control philosophy documents for test stand and prototype fuel cell systems.
- Specifies process equipment (including water treatment systems, pumps, heat exchangers, gas blowers, and reactors) in compliance with international codes and standards, project specifications, and general specifications prevalent in gas applications with minimal supervision.
- Works with suppliers to select and qualify equipment/designs for fuel cell balance-of-plant systems.
- Designs and analyzes piping systems in accordance with process design requirements and industry standards.
- Specifies and selects process instrumentation, including valves and transmitters/sensors.
- Ensures that systems are developed in accordance with best safety practices. This includes participating in Hazard and Operability Analysis (HAZOP) reviews.
- Supports system fabrication, installation, and commissioning activities for both in-house and fielded systems.
- Develops test plans for bench-scale system tests.
- Operates test facilities in accordance with test plans, analyses results, and generates test reports.
- Prepares presentations and reports to communicate designs to key internal stakeholders.

- Performs other duties as required.
- Domestic and occasional International travel required: 15%

Qualifications:

Education: BS Chemical Engineering. MS is a plus.

Experience: 3 plus years of relevant industrial experience

Ideal candidate must have:

- Strong understanding of chemical engineering processes, chemical process control, chemical reactions, and thermodynamics.
- Experience with the following process engineering disciplines: process simulations, equipment sizing and costing, PFDs, P&IDs, process controls and control philosophy development, safety and risk analysis.
- Experience with chemical process simulation software (e.g. Aspen, CHEMCAD).
- Experience developing and operating pilot, bench, or lab-scale testing facilities.
- Experience with troubleshooting mechanical and electrical components.
- Proficient in the use of Microsoft Office Suite.
- Excellent oral and written communication skills to work effectively and openly with others, both internally and externally.
- Good presentation skills to effectively communicate ideas and scientific findings.
- Team player who works willingly with others and keeps a positive, goal-focused outlook when tackling challenging, time-sensitive engineering problems.
- Flexible and adaptable to rapidly shift gears into multi-disciplinary roles based on current project requirements.
- Knowledge and experience of electrochemistry or fuel cells/batteries is a plus.
- Experience in an R&D environment is a plus.

Working Environment/Working Conditions:

- Must be able to work physically in the office environment, lab environment and in the field
- Walking/standing/working in an office, lab, fabrication area, or designated installation site environment
- Periodic work outdoors in a power plant environment during commissioning activities.
- Lifting up to 25 lbs., utilizing both hands simultaneously, utilizing hand tools, test equipment
- Be able and willing to wear required Personal Protective Equipment (PPE) as designated such as safety glasses, safety shoes, hard hats, respirator, and other PPE as required.
- Travel: up to 15% domestic or international
- Have or be able to obtain a Passport

How to Apply - External Applicants

Please submit a copy of your resume, **along with the voluntary self-identification forms listed on our career site,** to **jobs@fce.com.** Please **reference the Position (Job Title and Job ID)** in the subject header of your email.

Please note only those authorized to work in the United States will be considered.

How to Apply - Current Employees Only:

Please **reference the Position (Job Title and Job ID)** in the subject header of your email. Also, please email your HR representative that you have applied.

Equal Opportunity Employer - Vet/Disability

We offer a competitive compensation package as well as comprehensive benefits including medical, dental, vision, company-paid life/disability insurance, 401(k) plan, employee stock purchase plan and generous paid leave.

Employment with FCE is subject to pre-employment drug-screen and background investigation.

FuelCell Energy, Inc. is committed to ensuring that its application process provides an equal employment opportunity to all U.S. job seekers, including individuals with disabilities.

*If you believe you need a reasonable accommodation in order to search for a job opening or to submit an application, please send an email with your resume to jobs@fce.com or contact us by calling **203-205-2070**. Please indicate the specifics of the assistance needed.*

NOTE: *This dedicated phone line is designed **exclusively** to assist disabled job seekers whose disability prevents them from emailing. Only messages left for this purpose will be acknowledged. A response to your request may take up to two business days.*

No agency submissions please. Resumes submitted to any FuelCell Energy employee without a current, signed and valid contract in place with the FuelCell Energy Recruiting team for this position will become the property of FuelCell Energy and no agency fees will be paid.