

**Position:** Senior Plant 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 and experienced Senior Plant Engineer to join the multi-disciplinary Advanced Technology team and lead the design and build of a new combination power/hydrogen generation plant. This person will coordinate the overall design among multiple engineering sources, both in-house and third party, including definition and control of the interfaces among the various technical groups. This individual is expected to lead the design and development including: systems level plant engineering; CAD modelling of equipment, piping runs, and structural skids; specifying and assist with equipment selection; and working with suppliers to ensure delivery of sub-systems and components. This position requires flexibility to work on multiple projects in various stages of the design or validation process

**Responsibilities:**

- Utilizes engineering design documentation including PFD's, P&ID's, and vendor supplied specifications to develop plant CAD models (Autodesk Inventor) that will be used to generate plant site layouts, and mechanical fabrication drawings.
- Maintain the overall plant design, including a complete CAD model and control all the interfaces among the various plant sub-systems. Coordinate the designs among various engineers and outside groups.
- Manages the top-level plant Bill of Materials (BOM) in conjunction with the CAD model of the plant. This includes both custom designed components and vendor supplied equipment on multiple skids.
- Designs and develops custom process equipment, at times with CAD software, and analyzes designs utilizing a combination of engineering calculations, computer-aided engineering tools, and/or analyses of testing data.
- Specifies process equipment for advanced fuel cell systems in compliance with international codes and standards, project specifications, and general specifications prevalent in gas applications. Equipment may include: rotating equipment (pumps, blowers, compressors, turbo-expanders), heat exchangers, process vessels, fuel processing system components, reactors, water treatment systems, etc.
- Manages outside vendor fabrication of equipment in accordance with the technical requirements and project schedule. This includes periodically visiting vendor's production facilities to inspect product workmanship and witness equipment performance or other acceptance tests.

- Directs mechanical designers assigned to assist with 3D CAD designs and drawing generation- including checking and approving released-to-build manufacturing drawings.
- 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 when needed to ensure proper system operation.
- Prepares technical reports and presentations to communicate designs/results to internal and external stakeholders, and assists with writing project proposals.
- Domestic and International Travel Required: 5 - 10%

**Qualifications:**

**Education:** B.S. or M.S. in Mechanical Engineering or related field required.

**Experience:** Requires a minimum of 5 years of relevant work experience.

**Required Experience and Characteristics:**

- Provide good judgment, and innovation, by utilizing and adapting a broad knowledge of engineering principles and practices acquired through progressive experience.
- Good 3-D CAD modeling skills with Autodesk Inventor, Solidworks, or similar is required.
- Experience designing custom equipment for high temperature applications, including insulation and piping requiring expansion joints. Familiarity with EJMA standards would be beneficial.
- Experience with line sizing and selection of insulation and pipe supports is a plus.
- Experience managing vendor equipment procurement to meet project schedule timelines.
- Highly knowledgeable of equipment fabrication processes: welding, fabrication, and mechanical assembly of equipment and structural elements.
- Experience with NEMA electrical cabinets and conduits suitable for housing electrical equipment, control hardware, and routing cables outdoors.
- Ability to read and generate documents such as Functional Specifications, Piping & Instrumentation Diagrams (P&IDs), and Bills of Material (BoMs).
- Ability to shift priorities according to changes in departmental/facility needs and be open to different ideas/approaches.
- Knowledgeable of major industry codes and standards (especially ASME Boiler and Pressure Vessel) is a plus.
- Team player who works willingly with others and keeps a positive, goal-focused outlook when tackling challenging, time-sensitive engineering problems.
- Performs other duties as required.
- Domestic and occasional International travel required: 15%

**Working Environment/Working Conditions:**

- Most physical activity is desk work using a computer, at home and office as needed.
- This position is primarily indoors. Occasional work outdoors in a power plant environment during commissioning activities.
- Coordinate and set-up technical meetings via Zoom or other teleconference software on a regular basis.
- Occasional travel via car and/or commercial airlines may be required.
- 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/contact 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](mailto: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.