

POSITION TITLE: Mechanical Engineer, 1-10 Yrs. Experience

FLSA Status: Exempt (Salaried)

Position Status: Full-Time

Department: Engineering

Clean Energy is a fast-growing industry that is generating challenging and valuable opportunities. Whether you have a few years of experience or an established track record in your field, consider taking your career to the next level at Skyre, Inc. (SI). SI was founded in 2007 and is an emerging leader in electrochemical systems for critical energy and industrial applications having tremendous global commercial and societal value. Within our vibrant culture, the atmosphere is collaborative and supportive. Our employees are engaged because they know their ideas, opinions, and work are valued. Your experiences at Skyre will enable you to accelerate your career and deepen your impact on our global challenges facing the environment. Join our company to further your career at a company that is transforming the industry with innovative products and technology.

POSITION SUMMARY:

We are seeking an Mechanical Engineer at Skyre, Inc. to support our company-wide product development activities. In this role, you will be primarily responsible for assisting in the execution of R&D programs, the engineering of products, the development of systems, executing laboratory analyses and tests, and various other activities. As an Mechanical Engineer, you will work closely with cross-functional teams in an environment that is customer-driven, quality focused, and growth oriented.

PRIMARY RESPONSIBILITIES:

- Design electrochemical systems featuring Skyre's electrochemical cell stack hardware integrated with fluid and thermal control systems for delivery to commercial and government customers
- Select and evaluate balance of plant components for suitability in the electrochemical system, with consideration of pressure and temperature ratings as well as materials of construction
- Evaluate component suppliers and review capabilities with manufacturing representatives to determine approved supplier status; develop inspection criteria based on critical dimensions and properties
- Create detailed design drawings of the complete electrochemical system including system frame and enclosure, mounting of major system components, placement of all system components and routing of fluid lines and electrical harnesses
- Perform vibration and stress analyses of the system, ensuring compatibility with normal transportation loads or as may be specified by the customer
- Conduct simple pressure drop and thermal analyses of various hardware elements and fluid circuits of the complete system to ensure system requirements are met
- Assist manufacturing personnel in assembly of the systems, and incorporate design changes that facilitate assembly and reduce assembly cost
- Develop presentation material that support in-house and customer-driven design reviews
- Work with manufacturing personnel to advance the system design in design-to-cost analyses to reduce overall product cost to allow deeper penetration into the markets we serve
- Collaborate with manufacturing personnel to design for mistake-proofing and volume production considerations
- Support manufacturing personnel in disposition of non-conforming product and troubleshooting, and the technical service group in any failure analysis activities
- Must be an effective team player with ability to work well in our lean, fast-paced environment

MINIMUM QUALIFICATIONS:

- One to five years of industry-related experience (water electrolyzers, fuel cells, fluidics, gas separation, flow batteries)
- Experience with 3D CAD (Pro/E strongly preferred)
- Experience with FEA (Pro/Mechanica preferred)
- Motivated self-starter with high level of initiative and creative approach to problem solving
- Excellent verbal and written communication skills
- Strong organizational skills and ability to balance multiple tasks
- Capable of working well in a multi-disciplinary team environment with high degree of collaboration

EDUCATION AND/OR EXPERIENCE:

- BSME or equivalent

SKILLS AND EXPERIENCE SHOULD INCLUDE MOST OF THE FOLLOWING:

- Working knowledge of electrochemical devices
- Understanding of system materials requirements
- Working experience in support of manufacturing operations
- Supplier interaction and evaluation
- Working familiarity with safe work practices and hazard analysis

The above statements reflect the principal functions of the position and shall not be construed as a detailed description of all work requirements that may be inherent in the job.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Skyre has a published Code of Conduct that all employees are expected to follow.

Skyre provides comprehensive health and insurance benefits for its employees. The Company also offers competitive paid vacation time, sick leave, and holidays.

Visas

- Skyre will only employ those who are legally authorized to work in the United States. This is not a position for which sponsorship will be provided.
- Individuals with temporary visas such as E, F-1, H-1, H-2, L, B, J, or TN or who need sponsorship for work authorization now or in the future, are not eligible for hire.

Due to the high volume of resumes we receive, we are not able to respond personally to every application. However, we do review every resume, and will be sure to contact you if we think there is a possible fit.