



JOB DESCRIPTION

Job Title: Engineer, Mechanical R&D	FLSA Status: Exempt, Full Time
Reports to: CTO	Last Revision: 8/24/22

SUMMARY

In this hands-on role, you will work with a team of engineers in the design, development and implementation of the next generation of hydrogen fuel cell system and subsystems.

PRIMARY RESPONSIBILITIES

- Perform engineering analysis and calculations to design pressure vessels in accordance with the ASME Boiler & Pressure Vessel Code.
- Select materials for fuel processor components based on temperature, pressure, corrosion mechanisms, or other environmental issues.
- Evaluate stress condition of proposed designs via finite element analysis and classical analysis techniques.
- Perform calculations and simulations as required to evaluate fluid flow, heat and mass transfer.
- Perform failure analyses on failed components and prepare reports for internal distribution.
- Design reactors and heat exchangers to optimize fuel processor efficiency.

MINIMUM QUALIFICATIONS

- Master of Science degree in Mechanical Engineering
- Strong background in thermodynamics and metallurgy
- Proficient in CAD software
- Experience with ASME, ISO, or other codes and standards related to commercial products
- Must have strong interpersonal skills with ability to work in a fast-paced interdisciplinary team environment
- Engineer in Training and willing to obtain PE registration in Oregon

ADDITIONAL CONSIDERATION FOR THE FOLLOWING QUALIFICATIONS

- Knowledge of chemical reaction kinetics
- Experience with SolidWorks™ and their simulation packages
- PE registration in Oregon



WORKING CONDITIONS

Primary environment: Normal interior/office work environment and/or laboratory.

Secondary environment: Manufacturing environment. May be exposed to loud noises, changing temperatures, machinery with moving parts, and exotic materials.

PHYSICAL REQUIREMENTS

Lifting up to 50 lbs, manual dexterity, visual acuity, 'hands on' person

TRAVEL REQUIREMENTS

Travel within the US and foreign countries a few times per year with overnight stays up to 14 nights during an international trip.

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