



JOB DESCRIPTION

Job Title: Engineer, Chemical R&D	FLSA Status: Exempt, Full Time
Reports to: CTO	Last Revision: 11/7/22

SUMMARY

This is for a position as part of a team tasked with the design and implementation of various products in the area of fuel cell power systems at H2 PowerTech LLC. The key responsibility of this position is the development and optimization of fuel processors with emphasis on hydrogen generation and purification technologies. The ideal candidate is someone

- with broad experience in reaction kinetics and reaction engineering
- who is hands on and enjoys building prototypes
- who is process safety oriented

PRIMARY RESPONSIBILITIES

- Develop prototype fuel processors for alcohols and hydrocarbons
- Identify promising designs through modeling, data analysis, and new technology development
- Lead the fabrication and testing of reactors, heat exchangers, and adsorption beds based on simulation results
- Work with system designers and controls engineers on the integration of fuel processor technologies and validate integration via system level testing
- Formulate test protocols and conduct tests aimed at validating prototype designs
- Present findings to team with recommendations

MINIMUM QUALIFICATIONS

- B.S. in Chemical Engineering with minimum 2 years of development experience in chemical reaction engineering.
- Solid background in developing reaction kinetics and chemical process modeling
- Expertise in reactor and heat exchanger design
- Practical knowledge of catalysts, adsorbents, analytical equipment and automated data acquisition systems
- Experience with HAZCOM

ADDITIONAL CONSIDERATION FOR THE FOLLOWING QUALIFICATIONS

- Experience with pressure swing adsorption (PSA)



- Industrial reactor design experience
- 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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