

Director of Hydrogen Technology

We know that air pollution is cutting short people's lives and causing health problems, that greenhouse gas emissions are warming the planet and drastically changing our ecosystems, and we know that the emissions from the world's maritime fleet is a major contributing factor in all of this. We also know how to solve this problem. Our mission is to enable marine operators of all kinds to enjoy the benefits of zero emission hydrogen fuel cell technology. We are building the first commercial hydrogen fuel cell ferry in the world and that is just the beginning. Let's get this done together.

Role

In this highly-innovative position, you combine your expertise in systems for storage, transport, handling, and use of both liquid and gaseous hydrogen with your inherent creativity in order to craft the safest, most reliable, and most original hydrogen energy systems for maritime use.

Responsibilities

- Design practical on-board hydrogen storage, use, and refueling systems considering maritime regulations.
- Find innovative solutions to marine-specific issues and be Inventor on generated intellectual property.
- Design systems working with our electrical, controls, and software team.
- Perform risk analysis, failure mode analysis, and hazard identification studies.
- Work with our Marketing, Product, and Sales staff to develop market- and customer-specific solutions.
- Support product development and prototyping efforts with design and hands-on work.
- Communicate easily with customers, strategic partners, and other stakeholders regarding the details of GGZEM's core hydrogen technologies.
- Forecast research, development, and engineering needs to support customer requirements and continuous innovation.
- Stay up-to-date on the latest hydrogen-related technologies and trends.
- Work with our CTO to develop GGZEM's technical strategy.
- Some travel required.

Job Qualifications

Minimum qualifications:

- Bachelor's, Master's, or Ph.D. degree in Chemical or Mechanical Engineering or equivalent practical experience
- Design and hands-on experience with both liquid and gaseous hydrogen systems
- Working familiarity with common engineering design codes and standards (e.g. ASME, ASTM, CGA, NFPA, etc.)
- Experience preparing clear written summaries and giving presentations
- Proactive, innovative, and flexible mindset
- Comfortable working as a key contributor in a small startup team

- Open minded to occasionally work outside your specified role to help the company do what it needs to do to meet deadlines and scale quickly
- Experience with and enthusiasm for with tinkering, making, hacking, hands-on hobbies and projects, etc.
- Legal authorization to work in the United States

Preferred qualifications:

- Experience with control system design, data acquisition, PLC programming, etc.
- Comfortable with 3D CAD modeling, 2D shop/field drawings, bills of materials, specifying and purchasing parts and equipment
- Experience with basic fluid and heat transfer systems, and air handling (compression and ventilation) systems
- Design for harsh environments
- Working familiarity of US Coast Guard regulations
- Experience with the patent process
- Professional Engineering (PE) License or Engineer-In-Training (EIT) Certificate

Perks

GGZEM provides:

- Full benefits package
- Equity ownership in a high-growth company
- Competitive salary with bonus structure
- Flexible work hours and environment
- Training and growth opportunities
- Minimal bureaucracy
- Empowerment to do your job
- Fun, challenging work with a purpose