VERNE

Mechanical Engineer

Verne is a Berkeley-Stanford startup developing novel high-density, lightweight, and low-cost hydrogen storage systems for heavy-duty trucking. Our technology will accelerate the transition of the global heavy-duty transportation industry away from diesel fuel to zero-emissions green hydrogen. Our new onboard storage technology reduces the cost, weight, and volume of hydrogen storage by 50%, and makes it even safer than existing storage solutions. These characteristics allow trucks to carry a higher payload or travel double the distance before refueling. Successful deployment of our technology into the heavy-duty truck market is expected to lead to future expansions into the maritime and aviation industries. We are building a world-class engineering team to accelerate the decarbonization of the heavy-duty industry. We are supported by advisors at Breakthrough Energy Ventures, Lawrence Livermore National Lab and Berkeley, and have funding from Stanford, MIT, Caltech, the National Science Foundation and leading climate-tech angel investors.

What you'll do:
As a Mechanical Engineer you will conduct detailed design and analysis for our hydrogen storage systems, playing a vital part of our engineering team.

Specifically, you will:

- Conduct structural, dynamic, and thermal analysis on our established designs (fatigue cycle life analysis)
- Support the design of our next generation tanks, including optimizing system volumetric and gravimetric hydrogen capacities
- Implement structural, dynamic, and thermal analysis on our established designs (fatigue cycle life analysis)
- Validate new designs with initial modeling and detailed analysis
- Support our prototyping, testing, and optimization of our storage tanks
- Champion a culture of safety and high-quality work across design, development, and implementation

Key qualifications:

- Degree in Mechanical Engineering
- 2+ years of industry experience with computer-aided design, stress analysis, prototyping, and manufacturing
- Extensive experience with Solidworks, Ansys Fluent, Matlab, and Abaqus
- Excellent learner, listener, and team player
- Interest in entrepreneurship and participating in a growing early-stage startup
- Passion for driving large-scale decarbonization and a desire to be at the forefront of the global efforts to combat climate change

Compensation and benefits:

- Competitive salary
- Medical and dental insurance
- Flexible hours & paid time off
- Join a collaborative and passionate team
- The opportunity to shape the rapidly growing green hydrogen industry
- Mentorship from experienced technical and business teammates
- The chance to work closely with other leading transportation decarbonization partners

Location

- San Francisco
- Key vendors, suppliers, and partners in the broader Bay Area

About the Verne team

At Verne we value a diversity of approaches to critical thinking. We aim to establish an environment that welcomes different perspectives, where informed discussions flourish and each individual voice is respected. The team thrives in asking questions to gain a more nuanced understanding. We all strive to provide constructive feedback and ultimately aim to make each of us a better listener, thinker, and leader. Lastly, our mission is ambitious and difficult, so we don't forget to have fun!

About Verne

Verne is an Equal Opportunity Employer and does not discriminate on the basis of race, color, creed, gender, religion, marital status, registered domestic partner status, age, national origin, ancestry, physical or mental disability, medical condition, sex, genetic information, sexual orientation, military and veteran status or any other consideration made unlawful by federal, state, or local laws. It also prohibits unlawful discrimination based on the perception that anyone has any of those characteristics, or is associated with a person who has or is perceived as having any of those characteristics.

To apply: Please send resume and cover letter to contact@verneh2.com