



Control Engineer

Verne is developing innovative hydrogen technology that enables heavy-duty transportation (trucks, ships, and planes) to operate with zero emissions. Heavy-duty transportation is vital to the functioning of our global society but is also responsible for 10% of global greenhouse gases. If vehicles switch from fossil fuels to green hydrogen, they can operate without producing any emissions. However, two challenges prohibit this transition: storing enough hydrogen onboard to power their operations, and access to this hydrogen to refuel.

Verne is bringing to market two technologies that simultaneously address these challenges. First, Verne has developed a new way to increase the density of hydrogen gas. This equipment will be installed at refueling stations, converting low density hydrogen into ultra-high-density hydrogen fuel. Second, Verne has developed a way to store this high-density hydrogen onboard vehicles. Together, these two technologies more than double the amount of hydrogen that can be stored onboard vehicles, doubling vehicle range and allowing them to carry a full payload. With Verne's technology, vehicles can maintain current operations while eliminating harmful emissions.

Verne has made significant strides toward this massive industrial transformation and is conducting demonstration programs for vehicle and equipment manufacturers. Verne has gained the support of leading technology institutions, including the U.S. Department of Energy, MIT, Caltech, and Stanford, as well as some of the largest transportation companies in the world, with investment from Amazon and Caterpillar. All three co-founders were selected as fellows in the inaugural cohort of Breakthrough Energy's fellowship program, supported by Bill Gates.

What you'll do:

As Verne's Control Engineer, you will work closely with our hydrogen engineering team and lead the system design and controls our hydrogen storage and refueling systems. You will be a core technical member at Verne.

Specifically, you will:

- Support hardware and instrumentation selection
- Develop the instrumentation architecture and Programmable Logic Controllers (PLC) cabinets
- Oversee and/or develop PLC Code and Human Machine Interface (HMI)
- Coordinate Installation of Instrumentation or Electrical Enclosures
- Develop and maintain Instrumentation diagrams and associated Lists
- Lead loop check and calibration of all sensors and actuators
- Review and comment on Piping and Instrumentation Diagrams (PID) and functional analysis
- Participate on the commissioning of the multiple systems (testing, trouble shooting, tuning)
- Develop procedures to install, calibrate and maintain instrumentation
- Review electrical and instrumentation drawings, material selections and integration done by others
- Support the growth and development of other engineers/technicians, including junior engineers and world-class hydrogen storage experts

- Champion a culture of safety and high-quality work across design, development, and implementation

Key qualifications:

- BS in Instrumentation and Controls Engineering with 5+ years of experience, or certified instrumentation technician with 10+ years of relevant experience.
- Experience with instrumentation definition and selection.
- Experience with Electrical Diagrams and Instrumentation Cabinets.
- Advanced knowledge and experience with Industrial Controls such as PLCs and Fieldbus networks/protocols (HART, EtherNet/IP)
- Significant experience using tools and equipment, such as portable electronic test equipment, Digital Multimeter and Calibration equipment to test and troubleshoot installations
- Professional experience in Industrial Gases, Oil & Gas, Process Plant or Transportation
- Ability to work in collaborative and international work environment.
- Interest in entrepreneurship and leading engineering for 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

Preferred Qualifications:

- Experience with Equipment for use in explosive atmospheres (IECEX System).
- Experience with cryogenics instrumentation and vacuum equipment.

Compensation and benefits:

- Competitive salary and equity incentives
- 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
- The opportunity to work closely with leading transportation decarbonization partners

Location

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

Verne team and employment practices

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!

Verne is an Equal Opportunity Employer and does not discriminate based on 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 careers@verneh2.com