

Sensor Engineer

About H2scan:

H2scan is the world leader in providing solid-state hydrogen sensors. Our sensors are considered the gold standard for improving electrical distribution reliability, optimizing measurements in refinery and petrochemical plants, and are ideal to monitor/measure hydrogen concentration in fuel cells, electrolysis, and hydrogen distribution pipelines to reduce carbon emissions. When you join our team, you will be working side by side with talented engineers, scientists, and manufacturing professionals. You will be developing exciting, cutting-edge products to enable the expansion of the Hydrogen Economy, which is a cornerstone to the planet's decarbonization. From fuel cell vehicles to hydrogen-powered appliances, the opportunities are limitless. We offer highly competitive compensation, a flexible work schedule, and a fast-paced, fun work environment.

Location: On-site (Valencia, CA)

Type: Full-time

Salary: \$95,000-125,000

Reports to: Technical Director Sensors Group

Job Description:

H2scan is looking for a highly motivated individual to join the Sensor Engineering group. You will analyze data and utilize signal processing techniques to push our solid-state hydrogen sensing technology to its limits. You will develop new and innovative ways to extract useful information from the sensor system as well as design experiments to ensure the methods meet the industry needs. You will set up tests to explore new applications of the technology for growth into new, emerging markets.

Responsibilities:

- Develop a deep understanding of the complex physical nature of palladium-based hydrogen sensors
- Support development teams by providing data analysis and understanding of sensor data and behavior
- Develop and design real-time algorithms that utilize physical measurements to generate highly accurate and reliable hydrogen measurements
- Enhance and optimize existing algorithms
- Prototype implementation, documentation, and validation
- Alignment with project development regarding release planning, performance targets, and project milestones
- Review of and alignment to customer requirements
- Communicate findings through reports and presentations
- Work with multidisciplinary engineering teams to provide solutions on a rapid schedule

- Apply knowledge and broad understanding of multiple disciplines

Qualifications:

- Bachelor's degree in a related technical field such as Engineering, Computer Science, Physics, Mathematics, or similar
- 3+ years of experience with software development in Python, Matlab, or R
- Demonstrable experience in data collection for both analog and digital sensors with clear understanding of measurement theory and statistical analysis techniques
- Strong background in data collection practices and principles, and design of experiments
- Strong math skills
- Preferred: Master's degree in related technical field such as Engineering, Computer Science, Physics, Mathematics, or similar
- Preferred: 5+ years of demonstrable experience building and integrating algorithms used in commercial product or data science
- Preferred: Experience with C/C++ for embedded systems
- Preferred: Experience with systems and control theory

Benefits:

- Health Insurance benefits
- 401(k)
- Life insurance
- Family leave (paternal, maternal)
- Bonuses
- Equity/stock options
- Three weeks paid vacation
- Paid sick days
- FSA/HSA
- Cell phone reimbursement

H2scan is an Equal Opportunity Employer