



Hydrogen is the future, we can sense it™

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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 & 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.

Job Description:

Location: On-site (Valencia, CA)

Type: Full-time

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

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- 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 (parental, maternal)
- Bonuses
- Equity/stock options
- Three weeks paid vacation
- Paid sick days
- FSA/HSA
- Cell phone reimbursement

H2scan is an Equal Opportunity Employer