



Hydrogen is the future, we can sense it™

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R&D 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, electrolyzers, 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:

As an R&D Sensor Engineer, your mission will be to help enable the execution of testing and improvement initiatives of the Technology R&D group. You will be a crucial member of the Technology R&D team, and your work will directly support the group's mission.

We have a small interdisciplinary team that includes Chemical, Mechanical, Electrical, and Software Application engineers. You will be contributing from day one: we want you to be a part of our team and to have a lasting impact.

Responsibilities:

- Develop a deep understanding of the complex physical nature of palladium-based hydrogen sensors
- New product design, development, documentation, and validation
- Analyzing production faults (FMEA) to determine root causes (RCCA), preventative and corrective actions
- Communicate findings through reports, presentations, and executing test protocols
- Work with multidisciplinary engineering teams to provide solutions on a rapid schedule
- Alignment with project development regarding release planning, performance targets, and project milestones
- Execute tasks quickly and thoroughly
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Qualifications:

- Semiconductor experiences in III-V, Silicon devices, and processing are highly desirable

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- Semiconductor processing equipment, a metrology tool, and processing technique experience
- Experience with design of experiments, statistical process analysis, and manufacturing process control
- Understanding of industrial manufacturing operations
- Hands-on experience in testing includes test method development, design verification testing, etc.
- Bachelor's degree with five years of experience or master's degree with two years of experience in engineering, industrial technology, or another STEM field
- Preferred: material scientist with some microfabrication experience
- Organized, hands-on, detail-oriented
- Positive, solution-oriented attitude
- Desire to understand everything around you, leaving no stone unturned
- Never afraid to keep asking questions until you know
- Logical and data-driven
- Demonstrated ability to learn new things
- Strong written and verbal communication skills
- Great attention to detail

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