



Hydrogen is the future, we can sense it™

27215 Turnberry Lane
Suite A
Valencia, CA 91355
Tel 661.775.9575
Fax 661.775.9515
www.h2scan.com

Electrical 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 and analyze precision analog circuits for electronic instrumentation including capacitive and resistive sensing, control loop and power distribution
- Analysis and design of digital signal processing circuits, firmware and software for sensor signal conditioning
- Circuit design and schematic capture, component selection and physical layout
- Drive product certification of newly designed products for various safety standards
- Analysis for worst-case tolerance and potential failure modes (FMEA)
- Conduct testing and evaluation of prototype products and circuits
- Work with other design engineering disciplines and applications engineers to provide optimum designs on a rapid schedule
- Work with manufacturing during new products introduction and troubleshooting failure modes for existing products
- Work with suppliers for specification and fabrication of new designs and existing products
- Work with customers to provide engineering support of new applications and existing products
- Follow product development from concept through production

Qualifications:

6/21/2022

- Bachelor of Science degree in Electrical/Electronic Engineering or equivalent (including physics) from an accredited institution. Master of Science degree with significant graduate level research or the equivalent in advance development environments is preferred.
- Product development cycle from concept through production release
- Analog and digital circuit design, analysis, and simulation
- Component evaluation and selection
- Manage PCB layout and assembly of engineering prototypes
- Performance and validation testing
- Manage product certification tests for FCC, CE, and UL safety
- Excellent troubleshooting and problem-solving skills
- Excellent verbal and written communication skills
- Work well with others in a team environment
- Proficient in the use of Microsoft Office software
- Experience and interest in generating proposals that provide potential customers with complete system concepts and solutions to their system requirements
- Preferred: PCB layout using PADS and OrCAD tool set
- Preferred: Embedded system firmware using C and assembly language
- Preferred: Digital signal processing algorithm development
- Preferred: Control loop design and implementation (analog and/or digital)

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