



## Job Description

Position Title.....Level 3, Sr. Mechanical Engineer  
Location.....Valencia, CA (On-site)  
Typically Reports to.....Mechanical Engineering Manager  
Salary.....\$135K-\$145K

### About H2scan Corporation

H2scan was founded in 2002, and is headquartered in Valencia, California. H2scan helps our customers meet safety, regulatory and process control requirements in mission critical industries in the Hydrogen Economy, such as energy, utility, petrochemical, fuels cell and gas lines. We do that by providing the most accurate, tolerant and affordable continuous hydrogen sensors for monitoring industrial processes that generate or use H<sub>2</sub>, including transformer condition monitoring. H2scan holds 33+ patents, and our products are sold in over 50 countries.

### **Job Description**

We are seeking an experienced and motivated Senior Mechanical Engineer with an emphasis on product design. Works with a cross-functional engineering team including electrical, systems, software, and other mechanical engineers. Design projects include new sensor product developments, product line extensions and accessories, and sustaining engineering. Familiar with a variety of mechanical design engineering concepts, practices, and procedures, including experience with GD&T and design for manufacturing. The candidate relies on extensive experience and judgment to plan and accomplish goals.

### **Essential Responsibilities**

- Design of mechanical components and assemblies using SolidWorks
- Design for low- and high-volume manufacturing while leveraging rapid prototyping methods for early design verifications
- Support the full product lifecycle, including concept development, CAD modeling, prototyping, testing, and production release
- Collaborate with Electrical and Firmware Engineering to ensure full system integration
- Work closely with R&D, Manufacturing, Quality, and Document Control to support design transfer and production readiness
- Review designs and engineering outputs for technical accuracy and completeness
- Ensure designs comply with industry standards, safety requirements (ATEX, IECEx, UL, etc), and internal engineering guidelines
- Support supplier selection, component qualification, and production approval
- Evaluate, select, and procure mechanical materials and equipment and materials for prototypes
- Troubleshoot technical issues and support continuous product and process improvement
- Coordinate with production technicians for hand-off/release of production products
- Maintain awareness of new technologies, materials, and best practices and apply them to improve product performance and manufacturability

### **Essential Qualifications, Skills & Experience**

- Bachelor's degree in mechanical engineering
- 8+ years of related experience in mechanical design engineering required
- Strong knowledge of SolidWorks
- Knowledge of manufacturing processes
- Able to apply GD&T on all mechanical designs
- Fundamental understanding of electronics packaging and sensor (analog and digital) functionality
- Experience with precision machining, product assembly, design fixtures, system and subsystem integration
- Experience designing for high volume manufacturing (injection molding, die casting, extrusions, etc.)
- Experience taking a project from concept through production
- Familiarity with product lifecycle management (PLM) systems
- Strong communication, interpersonal, and leadership abilities

### **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

**H2scan is an Equal Opportunity Employer**