



Nuclear Sensors & Process Instrumentation

Round Rock, Texas, USA / www.ultra-nspi.com

Ultra Electronics, Nuclear Sensors & Process Instrumentation is a business name of Weed Instrument Co., Inc.

Job Description

Position: Nuclear Design Engineer, Pressure
Department: Engineering
Classification: Exempt
Supervisor: Technical Advisor, Nuclear Pressure

Purpose of Position

This position will be responsible for the design, development and support of sensor products with significant focus on nuclear pressure transmitter products. This includes design engineering, AutoCAD, SolidWorks 3D modeling, drawing creation, component specification and supplier qualification, environmental analysis, qualification testing, sustaining engineering, manufacturing support and project management.

Key Responsibilities

- Complete assigned projects in accordance with requirements and within schedule and budget limitations
- Domain knowledge application is typically 80% Mechanical Engineering and Manufacturing Process; 20% Electrical, Quality, Materials
- Research and development of pressure sensor elements and components
- Product design, analysis, and documentation
- Specification reviews and configuration management
- Project management
- Create and maintain inspection, manufacturing, and testing procedures
- Production work orders and work instructions
- Sustaining engineering
- Maintaining supply of qualified components
- 'Pre-emptive' management of risks
- Design Reviews and problem solving
- Product Verification & Validation and acceptance
- Product and component qualification testing
- Support manufacturing during production and testing
- Interact with: Customers, Suppliers, Engineers, Operations and Materials, Quality Assurance, Management at all levels
- Other duties as assigned

Desired Background and Skill Requirements

Required

- BSME from an ABET accredited University; or, equivalent Engineering degree in adjacent discipline (e.g. Electrical, Aerospace, Nuclear, Materials) with requisite design skills and experience
- Five (5) or more years of engineering experience including pressure sensors and transmitters
- Experience with pressure transmitter calibration, bench testing, component level troubleshooting, root cause analysis
- Working knowledge of manufacturing processes
- Design for Manufacturability (DFM)
- GD&T per ASME Y14.5M
- Experience and ability to work in a regulated industry
- Good verbal and written communication including technical writing (English)
- SolidWorks, AutoCAD or similar MCAD, MS Office

Considered a plus

- Expertise in pressure sensor technologies
- Experience in Aerospace, Military, Nuclear, or Environmental Qualifications
- Familiarity with IEEE 323 & 344 and RCC standards, ASME Codes, and nuclear quality standards
- Solid modeling and Finite Element Analysis (FEA)
- Experience in computer integrated manufacturing CAD/CAM/CMM
- Programming in Excel, Visual Basic, MATLAB, LabVIEW
- Physical requirements may include lifting up to 50 pounds
- Ability to work effectively in a team environment

Ultra Electronics, NSPI
Date: 08/04/2011

Authorized by: Dan Upp
President

The Company reserves the right to modify, interpret, or apply this job description. This job description in no way implies that these are the only duties, including essential duties, to be performed by the employee occupying this position. This job description is not an employment contract, implied or otherwise. The employment relationship remains "At-Will."