



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 Project Design Engineer
Department: Nuclear Engineering Division
Classification: Exempt
Supervisor: Nuclear Engineering Manager

Purpose of Position

The primary role of this position is the design and development of temperature sensors and related hardware and for use in the global commercial nuclear power generation industry. The work involves primarily mechanical engineering design and component integration, together with providing technical leadership and project management for assigned projects throughout the entire life cycle from initial concept through successful completion.

Key Responsibilities

- Complete assigned projects in accordance with requirements and within schedule and budget limitations, coordinating activities of engineering, production operations, quality assurance and suppliers
- Domain knowledge application is typically 80% Mechanical Engineering and Manufacturing Process; 20% Electrical, Quality, Materials and other
- Plan and estimate requirements for resources: management, labor, materials, and time required to complete project, track progress and report status
- Project management
- Requirements management
- Product design, analysis, and documentation
- Product performance
- Design team leadership
- Design requirements arbitration
- Subcontract technical management
- 'Pre-emptive' management of risks
- Design Reviews and problem solving
- Product Verification & Validation and acceptance
- Design Certification
- 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, Petroleum) with requisite mechanical design skills and experience
- Five (5) or more years of engineering experience in mechanical and systems engineering design
- Drive for results with ability to manage multiple projects simultaneously
- Experience working in a manufacturing environment
- Working knowledge of machining, welding, brazing, and soldering 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
- Physical requirements may include lifting up to 50 pounds
- Ability to work effectively in a team environment
- Lives the "continuous improvement" philosophy; develops and adopts new ideas and concepts

Considered a plus

- Masters degree in Mechanical Engineering or closely related discipline
- Previous experience in flow stress analyses of thermowells
- Familiarity with RCC, ASME Codes, and nuclear quality standards
- Finite Element Analysis (FEA): structural and thermal
- Solid modeling
- Experience in computer integrated manufacturing CAD/CAM/CMM
- Programming in Excel, Visual Basic, MATLAB, LabVIEW

Ultra Electronics, NSPI
Date: 02/17/09

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."**