

Instrumentation Engineer

For our client in Antwerp we are hiring a **Instrumentation Engineer**.

Job description

- ✓ Administer the packages of the instrumentation engineering group.
- ✓ Uses technical knowledge to perform engineering assignments and produce a range of instrumentation engineering deliverables (including more complex tasks) with limited guidance and direction from more senior technical professionals.
- ✓ Develops a range of instrumentation engineering deliverables, including specifications, calculations, reports, technical requisitions, material requisitions and others.
- ✓ Ensure that Instrumentation Engineering activities are executed according to project procedures, specifications and standards, good engineering practices and techniques, and any project-specific requirements.
- ✓ Supervise the day-to-day (if any) engineering interfaces between PMC core engineering group, Project Management team and the engineering teams assigned to the EPC package - includes interaction with all other specialist disciplines as required.
- ✓ Participate in design reviews and engineering changes with customer and EPC contractor as necessitated by design development and ensure core team are made aware of these.
- ✓ Participate in key customer reviews and meetings as required.
- ✓ Participate in project reviews, value engineering and value improvement workshops with customer/contractor.
- ✓ Participate in meetings and reviews.
- ✓ Responsible for estimating electrical discipline manhours and schedule requirements in production of deliverables, coordinates own work schedule, and prepares progress reports.
- ✓ Review vendor documentation.
- ✓ Carryout Site Surveys and develop site survey reports.
- ✓ Review and comment PFD / P&ID for any control / interlock / safety related representations.
- ✓ Participating in HAZOP / SIL review meeting. Implementing safety instrument design as per review reports.
- ✓ Implementing safety instrument design as per HAZOP / SIL review reports, performing the calculation of SIL definitions and preparing safety requirement specifications.
- ✓ Update of P&ID and instrument structure design for the SIL requirements.
- ✓ Preparation / review / development of specifications of DCS / SIS / F&G systems and any other PLC related systems.
- ✓ Preparation of system architecture for DCS, SIS, F&G, or any other control systems.
- ✓ Preparation of material requisitions for DCS / SIS / F&G systems, SCADA or any other control systems required for the project.
- ✓ Preparation of technical bid evaluations of suppliers' proposal for control systems.
- ✓ Preparation of the control system requirement for package units; supporting package specialists for MR, technical clarification and bid evaluations, document review and approval. Coördinating the interfaces between package unit control system and plant control systems.
- ✓ Review and approve vendor documents for incorporation into the design and co-ordination with other

disciplines. Provide the input to other disciplines, such as electrical consumption for electrical power supply design, heat dissipation for ACMV design, weight and dimension for civil/architecture design.

- ✓ Preparation of cause & effect matrix, logic diagrams, control narratives and safety narratives, any other necessary control & ESD system related documents for the system configurations.
- ✓ Perform the calculation of SIL verifications and revise the instrument design structures where required.
- ✓ Review and check the all the activities and documents required for the lifecycles of the safety instrumented system.
- ✓ Review and approval of suppliers' hardware and software configuration.

Design of control room layout

- ✓ Instruct and advise instrument design team for the control system hardware and cabling installation design, system cabinet earthing and grounding design.
- ✓ Preparation of instrument bill of quantity and subcontractor requisition for control system hardware installation work.
- ✓ Review / comment / approval of supplier's test procedures; attend FAT / SAT and follow up with any punch list.
- ✓ Preparation of functional test procedures for loop testing when requested by client.
- ✓ Requires extensive and independent contact with clients, vendor's representatives and project field personnel. Attend and participate in coördination meetings required.
- ✓ Direct and / or participate in job site visits to collect or deliver design and engineering data.
- ✓ Ensuring that all comments are consistent and are included in the drawings according to the applicable procedure.

Your qualifications

- ✓ Relevant degree / Chartered Engineer or appropriate experience.
- ✓ Proven record ranging from minimum 10 years in engineering of refinery, oil & gas, petrochemical, or similar facilities.
- ✓ Experience of FEED and EPC projects.
- ✓ Experienced engineer with sound technical background and expertise.
- ✓ Experienced in the use of appropriate codes of practice, standards and relevant sections of statutory documentation.
- ✓ Fluent English, knowledge of French and Dutch is a plus.

Reference: 3199

Projectphase: Engineering

Discipline: Instrumentation

Position: Engineer

Function level: Lead, Senior

Region: (B) Antwerpen

Education: Master, Bachelor

Experience: 8-15 years, 15+ years

Type of contract: Intentional

Posted at: 02-08-2024

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