

JOB DESCRIPTION

POSITION: Electrical & Instrumentation Engineer

DIRECT SUPERVISOR: Principal Engineer/ CEO

KNOWLEDGE & EXPERIENCE REQUIRED:

- A first degree in Control/Instrument/Electrical Engineering or an equivalent qualification from a recognized, accredited institution
- A minimum of 3-5 years relevant experience as an Instrumentation and Controls engineer within an oil and gas or Industrial environment.
- Professional qualification to at least one of the following: Certified by the Board of Engineering of Trinidad and Tobago, a Professional Engineer (P.E.) US standard or Chartered Engineer (C.E.) UK standard.
- Design knowledge of the design, operation and maintenance of Instrumentation equipment selection and applications and Medium, Low Voltage Electrical Systems, and Grounding.
- Design knowledge of Distributed Control System (DCS), Safety Instrumentation Systems (SIS) and Programmable Logic Controller (PLC) systems.

SYLENG EMPLOYMENT PRE-REQUISITES:

- Valid UKOOA Medical Certificate.
- 7-point Drug Test Certificate (not older than 1 month)
- Good Police Certificate of Character (not older than 6 months)
- Two Character References (*preferably from previous employer(s) and or individual(s) to whom the candidate is known for a minimum of 5 years*)
- Signed CV and completed SYLENG Employment Application Form.

RESPONSIBILITIES OF THE E&I ENGINEER:

- Provides sound technical E&I designs as it relates to specific projects being worked on in house or on client's location.
- Liaises with vendors to confirm equipment specifications and other issues related to equipment performance including guarantee and warranty matters.
- Operate computer-assisted engineering and design software and equipment to perform engineering tasks (Auto CAD and Revit).

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- Prepare and study technical drawings, specifications or electrical systems, and topographical maps to ensure that installation and operations conform to standards and customer requirements.
- Compile data and write reports regarding existing and potential engineering studies and projects.
- Designs and controls the implementation of engineering modifications to plant and equipment in accordance with the Engineering Technical Practices and the Management of Change (MOC) process.
- Performs project management functions for (EI&C) Systems modifications and projects by formulating the design technical scope of work and assisting with cost and schedule estimates.
- Provides Quality Assurance Guidelines and assist in monitoring design and construction contractors to ensure that work is carried out in accordance with the technical requirements and conforms to recognized engineering practices and safety regulations.
- Develops technical specifications and provides guidance and quality assurance in the procurement of materials, equipment and services to ensure conformity with sound engineering practice and cost effectiveness.
- Participates in Process Hazard Analyses, Risk Assessments and other formal hazard assessments.
- Audits EI&C systems work performed on site to ensure that work is performed according to safe and sound work practices.
- Interfaces with the Operations, Maintenance and other Client's discipline engineering groups on assigned issues related to EI&C systems modification, redesign and upgrade in the context of expansion projects or plant modifications.
- Cooperates in ensuring that the workplace is safe for everyone and takes reasonable care to ensure that nothing is done to endanger self or others or cause avoidable damage to the environment.
- Demonstrates adherence to the Company's health, safety, security and environmental policies and procedures by exhibiting the required behaviours.
- Performs any other related duties as assigned by the Supervisor.