Role: Pipeline Application Engineer

Interfaces

Reporting line: CTO/VP Pipeline Diagnostics
Department: Engineering/Technical Services
Location: Aberdeen, Norwich or others considered

Job Summary

We are seeking a highly skilled and motivated **Pipeline Application Engineer** to support the design, manufacture, implementation, and maintenance of novel pipeline visualisation tools, "PIG" systems and applications. The ideal candidate will work cross-functionally with technology, R&D, operations, engineering, 3rd parties and IT teams to ensure the reliability, safety, and efficiency of pipeline applications and associated technologies. The ideal candidate is a highly experienced self-starter, capable of working autonomously and coming up with solutions with limited oversight. Must have a winning mentality and a can-do attitude to give customers the best solution possible.

Key Responsibilities

- Configure, maintain, and troubleshoot pipeline simulation and hydraulic modelling software (e.g., Synergi Gas, Synergi Pipeline, AFT, PipeSim). To use customer provided pipeline information, design inhouse technology to ensure piggability of the pipeline is achieved and hardware is made available.

- Support the integration of SCADA, leak detection systems, and control room applications for real-time pipeline monitoring.

- Collaborate with pipeline integrity, operations, and IT teams to implement digital tools that enhance operational reliability and decision-making.

- Analyze pipeline data to optimize performance, identify anomalies, and support incident response and reporting.

- Develop and maintain scripts and tools for automation, reporting, and data analysis.

- Participate in system upgrades, testing, and commissioning of new pipeline visualisation & pigging technologies.

- Ensure all application solutions comply with industry regulations (e.g., PHMSA, DOT 49 CFR Parts 192/195) and internal standards.

- Provide training and technical support to engineering and operations personnel. Specific to Pipeline Pigging, ILI ,Design.

- Document workflows, system designs, and user procedures.

- Assist in training end-users and supporting change management for new technologies.

Support/lead identification of complementary technologies/comapnies that can add value and be run in tandem with inhouse technologies to provide value for the customers.

Qualifications:

- Bachelor's degree in Corrosion, Mechanical, Chemical, Metallurgy, Electrical, Electronics, Mechatronics, Automation, Computer Science, or a related field.

- 3+ years of experience in a similar engineering or application support role (pipeline or software domain).

- Proficiency in pipeline simulation and hydraulic modelling tools. Be competent in providing pig-ability designs/reports for inhouse and 3rd party pipeline pig trains

- Familiarity with SCADA systems, leak detection systems, and control room operations.

- Experience working with data visualization/reporting platforms (e.g., Power BI, PI System) and basic scripting (e.g., Python, VBA, SQL).

- Strong understanding of regulatory requirements related to pipeline safety and integrity.

Preferred Qualifications:

- Professional Engineer (PE) license or in progress.

- Experience with GIS systems and pipeline data management (e.g., PODS).

- Working knowledge of asset integrity tools, inline inspection data and ASNT level data analysis.

evcam.com