UNI ENERGY GULF TRADING LLC OPC

# Job Description – Lead Pipeline Engineer

# PROJECT ROLES & RESPONSIBILITIES

| Rev | Date | Description | Prepared By | Checked By | Approved By | Description (Changes) |
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## 1.0 INTRODUCTION

This section provides an outline of the roles and responsibilities of a Lead Piping Engineer in Uni Energy Gulf Trading Systems. It provides a basis for the structure of Uni Energy Gulf Trading Systems Project teams and defines how they interact within the company. It applies to all Uni Energy Gulf Trading Systems employees working on project-based tasks.

## 2.0 POSITION DETAILS

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| **Position Title:** | **Lead Pipeline Engineer** |
| **Department:** | **Engineering** |
| **Division:** | **Project** |
| **Reporting to:** | **Project Engineering Manager** |

## 3.0 POSITION SUMMARY

The Lead Pipeline Engineer is responsible for leading and managing pipeline engineering activities throughout EPC projects, from FEED development through detailed engineering, procurement support, construction, commissioning, and handover. The role ensures that pipeline design, analysis, and engineering deliverables are completed in compliance with project specifications, international standards, client requirements, and HSE expectations.

The position requires strong technical leadership, coordination with multidisciplinary engineering teams, vendors, subcontractors, and clients to deliver safe, cost-effective, and technically compliant.

## 4.0 ESSENTIAL RESPONISIBILITIES

### Engineering Leadership & Project Execution

- Lead pipeline engineering activities for EPC projects, ensuring timely delivery of engineering deliverables.
- Provide technical guidance and supervision to pipeline engineers and designers.
- Review project scope, specifications, design basis, and contractual requirements.
- Coordinate with project management, construction, procurement, and commissioning teams.
- Ensure engineering activities comply with approved project schedules, budgets, and quality requirements.

### Pipeline Design & Analysis

- Perform and review pipeline engineering calculations, studies, and technical assessments.
- Lead pipeline routing studies, hydraulic analysis, stress analysis, and design optimization.
- Review pipeline wall thickness calculations, material selection, and corrosion assessments.
- Ensure compliance with pipeline design codes and standards including ASME B31.4, ASME B31.8, DNV, API, ISO, and client specifications.
- Review pipeline design for onshore/offshore facilities, including flowlines, gathering systems, export pipelines, and utility pipelines.

- Provide technical input for pipeline crossings, tie-ins, pigging facilities, valves, and associated pipeline systems.

**Engineering Deliverables**

- Prepare, review, and approve pipeline engineering deliverables including:
  - Pipeline design basis
  - Pipeline specifications
  - Route studies and alignment sheets
  - Hydraulic calculations
  - Stress analysis reports
  - Material specifications
  - Line lists
  - Pipeline datasheets
  - Construction specifications
  - Technical bid evaluations
  - Vendor document reviews
  - As-built documentation

**Interface & Coordination**

- Coordinate with other disciplines including Process, Mechanical, Civil, Structural, Electrical, Instrumentation, and Construction teams.
- Participate in design reviews, HAZOP, HAZID, constructability reviews, and project technical meetings.
- Liaise with clients, consultants, vendors, and subcontractors on technical matters.
- Support procurement activities through technical clarifications and vendor evaluations.

**Construction & Commissioning Support**

- Provide engineering support during fabrication, installation, testing, and commissioning phases.
- Review construction method statements, inspection and test plans (ITPs), and technical queries.
- Support resolution of site engineering issues and non-conformities.
- Participate in site visits and project inspections when required.

**Quality, Safety & Compliance**

- Ensure engineering activities comply with company Quality Management System and project procedures.
- Promote safe engineering practices and compliance with HSE requirements.
- Participate in audits, technical reviews, and lessons learned activities.

## 5.0 QUALIFICATIONS AND EXPERIENCE

### Education

- Bachelor's Degree in Mechanical Engineering, Pipeline Engineering, Civil Engineering, or equivalent.
- Professional certification (PE, Chartered Engineer, or equivalent) is preferred.

### Experience

- Minimum **10–15 years of pipeline engineering experience** in Oil & Gas EPC projects.
- Proven experience as Lead Pipeline Engineer or Senior Pipeline Engineer on major EPC projects.
- Experience in FEED, detailed engineering, procurement support, construction, and commissioning phases.
- Experience with onshore/offshore pipeline systems, flowlines, and transmission pipelines.
- Experience working with international oil companies (IOC/NOC) and EPC contractors is preferred.

### Technical Skills

- Strong knowledge of pipeline engineering principles and design practices.
- Proficiency in pipeline design software and engineering tools such as:
  - AutoCAD / MicroStation
  - CAESAR II
  - OLGA / PIPESIM (preferred)
  - GIS-based pipeline routing tools (preferred)
- Knowledge of pipeline integrity management, corrosion control, and cathodic protection.
- Familiarity with pipeline construction methods, welding, hydrotesting, and commissioning activities.
- Strong understanding of applicable international codes and standards:
  - ASME B31.4 / B31.8
  - API 5L
  - DNV standards
  - NACE / AMPP standards
  - ISO standards
  - Client-specific engineering specifications

### Leadership & Behavioral Competencies

- Strong technical leadership and decision-making skills.
- Ability to manage multiple priorities and meet project deadlines.
- Excellent communication and stakeholder management skills.
- Strong problem-solving and analytical capabilities.
- Ability to work effectively in multicultural and multidisciplinary teams.
- Commitment to quality, safety, and continuous improvement.

**Key Performance Indicators (KPIs)**

- Timely completion of pipeline engineering deliverables.
- Compliance with project specifications and engineering standards.
- Reduction of engineering revisions and technical queries.
- Effective coordination with project stakeholders.
- Quality of engineering documentation and technical solutions.
- Compliance with HSE and company procedures