

Job Description: Pipeline, Oil & Effluent Storage Tank Design Engineer

➤ **Position Summary**

We are seeking a skilled and experienced Pipeline, Oil & Effluent Storage Tank Design Engineer to join our engineering team. The ideal candidate will have a strong background in designing, analyzing, and optimizing pipeline systems and storage tanks for oil, gas, and effluent management. The role requires a deep understanding of industry standards, safety protocols, and regulatory requirements.

● **Key Responsibilities**

- Design and Development
- Design pipeline systems, Piping Systems, Pressure Vessels, structural designs and storage tanks for oil, gas, and effluent management.
- Develop detailed engineering drawings, specifications, and technical reports.
- Perform feasibility studies, preparation of DCI, MCI, MTO, BOM risk assessments, and cost estimates.

● **Technical Analysis**

- Conduct stress analysis, fluid dynamics, and thermal analysis for pipelines and storage tanks.
- Utilize simulation software to model and optimize designs.
- Ensure compliance with industry standards and regulatory requirements.

● **Project Management**

- Coordinate with project managers to ensure timely completion of design projects.
- Prepare and present project proposals, budgets, and schedules.
- Manage technical documentation and ensure accurate record-keeping.

● **Collaboration**

- Work closely with cross-functional teams, including civil, mechanical, and electrical engineers.
- Liaise with clients, contractors, and suppliers to ensure project requirements are met.
- Provide technical support during the construction and commissioning phases.

● **Quality Assurance**

- Implement and maintain quality control procedures.
- Conduct inspections and audits to ensure design integrity and safety.
- Address and resolve any design-related issues or discrepancies.

➤ **Qualifications**

● **Education:**

- Master's / Bachelor's degree in mechanical engineering, Pipeline Engineering, Civil Engineering, or a related field.
- Master's degree or professional certification (e.g., PE) is a plus.

● **Experience:**

- Minimum of 5 years of experience in pipeline and storage tank design.
- Proven track record of successful project delivery in the oil and gas industry.

● **Technical Skills:**

- Proficient in CAD software (e.g., AutoCAD, SolidWorks).
- Experience with simulation tools (e.g., ANSYS, HYSYS).
- Providing engineering guidance and Preparing engineering documents, reports and presentation
- Knowledge of inter discipline engineering activities and providing technical solution
- Bid evaluation, Man hour estimation and Manpower planning



Familiarity to CAESAR

Familiar with classification DNV, ABS, IRS, MARPOL & SOLAS regulations

Familiar with various international piping codes NFPA 59A, ANSI/ASME, API, ASTM, BS & NORSK

3D Modelling of piping system and equipment

Estimating BOQ, MTO from the drawings

Preparing piping layout, Equipment layout, Valve list, Line list

Preparing piping tie-in list and location identification

Preparing piping system matrix, composite layout & ISO drawings

Preparing & Selection of vessels tank fittings, Deck & bulkhead fittings and Skin fittings

Reviewing & development of marine P&ID as per class and marine requirement

Preparing piping co-ordination drawing and production support

Preparing inter discipline clash report and erection sequences.

- **Soft Skills:**

- Excellent problem-solving and analytical skills.
- Strong communication and interpersonal abilities.
- Ability to work independently and as part of a team.

- **Preferred Qualifications**

- Experience with offshore pipeline and storage tank projects.
- Familiarity with environmental regulations and sustainability practices.
- Advanced knowledge of materials engineering and corrosion protection.

- **Working Conditions:**

- This position may require travel to project sites.
- Ability to work in various environmental conditions, including remote locations.

- **Application Process:**

Interested candidates should submit their resume, cover letter, and portfolio of relevant work.

Applications will be reviewed on a rolling basis until the position is filled.