



PLANT ENGTECH PVT LTD.

We are Hiring

- Senior Pipe Stress Engineer - Stress Analysis
- Senior Process Engineer
- Senior Engineer Mechanical Engineer (Tankage & Rotation)
- Senior Piping Engineer
- Senior Electrical Engineer
- Senior Instrumentation-E&I Engineer
- E3D Designer / E3D Engineer

Submit your CV:

Email – sailakshmi.s@plantengtech.com

Contact us:

Plant Engtech Private Limited, Trichy

www.plantengtech.com

- **Work Location:** *Abu Dhabi*
- **Requirement :** *Experience in Designing & Engineering*
- **Qualification :** *B.E / B.Tech (Electrical, Mechanical, E&I, Process/Chemical Engineer)*
- **Experience :** *06 to 10 years required.*



PLANT ENGTECH PVT LTD.

Senior Pipe Stress Engineer - Stress Analysis

Job Description:

- Prepare CAESAR II Piping Model
- Evaluate Piping flexibility Stress analysis
- Prepare Critical line list
- Prepare Piping stress reports
- Prepare Piping special items data sheets
- Prepare Support load mark up for structural design
- Review critical equipment GA
- Technical evaluation of piping special items

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Requirements:

- BE Mechanical Engineering from a reputable university with 5 - 10 years related experience in design and construction of LNG/Ammonia/LPG or chemical storage terminals and with below capabilities:
- Measure the effects of support settlement, safety relief valves, seismic loads, thermal cycle loads and wind.
- Select proper springs for necessary support.
- Analysis capabilities for Steam piping, Cryogenic Piping system, FRP Piping system, Tank farm piping, Underground pipelines, Expansion joints piping system, critical rotating equipment, Air coolers etc.
- Analysis capabilities the considering the effects of the modular design and transit phase, static & differential structural deflections associated with fabrication, lift, transit and site installation.
- Evaluate Stress, Displacement, Forces and moments on restraints for support design and
- Evaluate piping loads within allowable nozzle loads.
- Nozzle Flexibilities (WRC) and Stresses.
- Flange Leak Check.
- Dynamic analysis capabilities including modal, harmonic and response spectrum analysis.
- Data sheet preparation for Expansion joints, spring hanger data sheet, trunnion calculation check, and updating the Pipe support standards.
- Stress analysis report preparation.
- Knowledge of piping codes and standards like ASME, API etc.



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Job Description:

Senior Process Engineer

- Prepare PFD & P&IDs
- Prepare Heat & Material Balance
- Perform Heat Transfer Calculations, Hydraulic calculations, surge analysis
- Perform Tank Venting Calculation as per API 2000
- Perform TRV and PSV Sizing Calculation as per API 520 & API 521
- Perform Process Equipment sizing
- Perform the calculations for Wastewater system, Firefighting system and Utility system.
- Prepare Process data sheets
- Participate in HAZOP / SIL Study and close out HAZOP / SIL Action sheets

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Requirements:

- B.E chemical or Process Engineering from a reputable university with Oil & Gas background – ideally with terminal experience and refrigerated/cryogenic experience.
- 5 - 10 years related experience in design and construction of LNG/Ammonia/LPG or chemical storage terminals. Knowledge of BOG refrigeration system is expected.
- Proficiency with process simulation software (e.g. Aspen HYSYS, Honeywell UniSim, etc.) is a plus.



PLANT ENGTECH PVT LTD.

AVEVA E3D Admin

Job Description:

- Creating symbology, filters, reports, templates, system maintenance, etc.
- Setting up satellite databases, global communications, extracts etc.
- Development of automation enhancements and/or custom requirements.
- Support projects to develop E3D Execution Plans and Specifications.

Requirements:

- Minimum seven (10) years of related experience in the EPC / EPCM project
- Proficiency in a common CAD drafting or graphics tool (e.g. Aveva Draw, AutoCAD and Micro Station).
- Detailed knowledge of Aveva Licensing System (ALS) installation and setup and E3D table structure, Rules, Objects, Hierarchy, Workshare Modes, configuration and use.
- Detailed knowledge of E3D configuration and setup of Symbology, Formats and Project configuration.
- A strong understanding of the AVEVA E3D software and its functionality.
- Experience in software configuration and management.
- Knowledge of project management principles.
- An understanding of the engineering and construction industries.
- Strong communication and interpersonal skills.
- The ability to troubleshoot issues and solve problems.

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PLANT ENGTECH PVT LTD.

Senior Design Engineer / Senior Engineer (Electrical)

Job Description:

- Perform detailed engineering work concern with electrical load list, transformer sizing , cable sizing, MCC sizing, UPS sizing, short circuit calculations, transient load study, harmonic study, arc flash study, motor acceleration, Protection relay coordination, termination, layout, Hazardous area classification, Material take off, TBE and procurement.
- Perform conceptual design , prepare SLD.
- Involve detail design engineering work with Etap sizing, Lux calculation design.
- Coordinate/Discuss with Clients on the project design requirements.
- Prepare technical bid evaluation and material requisitions to purchase the electrical equipment.
- To supervise site installation and construction.
- To involve factory acceptance test, site acceptance test, field inspection, testing and commissioning of electrical equipment.

Requirements:

- Degree in electrical engineering or its equivalent minimum seven (7) years' experiences preferable in Oil & Gas field , Petrochemical, EPC/EPCM project and engineering design experience for UAE project.
- Good knowledge of international code and standards.
- Good knowledge of electrical safety and area classifications.
- Good knowledge of explosion proof, flame proof and IP protection class.
- Good knowledge in engineering calculation and Etap software.
- Strong communication and interpersonal skills.

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PLANT ENGTECH PVT LTD.

Associate Principal Engineer (Instrumentation)

Work Location: *Abu Dhabi*

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Job Description:

- To lead a group of discipline engineers on large scale projects for delivering the engineering deliverables as defined in the scope of contract and support multiple projects.
- Direct liaison with the Client and/or their representatives with regards to all technical issues, operational, maintenance requirements and construction gaps.
- Prepare Technical Proposals, Tender Documents and Costing for Project Mangers.
- Review, Comment, Develop Technical documents such as Specification, Datasheet, Technical Proposal, Material Requisition, etc
- Mentoring of engineers during tendering, design and construction phase based on the best practices.
- Review and Approval of Vendors submission and carried out Technical and Commercial evaluation to ensure the purchase equipment meets the project specification and budget.
- Engineering Work Schedule, Daily Pre-Commissioning activities/ Commissioning schedule planning, execution, and progress reporting.
- Attend Project Meetings, FAT/SAT, HAZOP, SIL/SIF, Workshops.

Requirements:

- More than 15 years of relevant Engineering Design experience in Oil and Gas downstream, Petrochemical, Chemical terminals, Offshore or FPSO & Degree in a relevant Engineering discipline.
- Completed minimum 3 large scale projects (> USD100M) as leading role in EPC.
- Knowledge of the practical application of engineering for instrumentation and control and good analytical skills to evaluate technical/functionality of system or equipment requirements. This includes applying principles, techniques, and procedures to the design to identify inefficiencies and/or problems and resolve changes/modifications in a timely manner.
- Possess strong knowledge in relevant Instrumentation Standards such as IEC, ISA, NFPA, IEEE, API, DEP, AGES and UAE Code.
- Strong communication skills and the ability to ask relevant questions and provide thorough explanations
- Team player with the ability to Lead and work in a multidisciplinary / multinational environment.
- Ability to work in a high pressure, fast-paced project environment.
- Knowledge of SPI INTOOLS, AVEVA e3D E&I, AutoCAD with hands-on will be an advantage.
- Experience in functional safety for the process industry as per IEC 61511. Certified functional safety engineer will be an advantage.
- Experience in execution & completion phases of projects; including pre-commissioning and commissioning



PLANT ENGTECH PVT LTD.

Lead Design Engineer (Instrumentation)

Job Description:

- To lead a group of discipline engineers on large-scale project for delivering the engineering deliverables as defined in the scope of contract.
- Direct liaison with the Client and/or their representatives with regards to all technical issues, operational, maintenance requirements and construction gaps.
- Keep tracking for work deviation/engineering changes and issue Change Notification/Variation Order to Project Manager/ Client for review and approval.
- Prepare Technical Proposals, Tender Documents and Costing for Mangers.
- Develop basic and conceptual design drawings for detailing.
- Review, Comment, Develop Technical documents such as Specification, Datasheet, Technical Proposal, Material Requisition, etc
- Liaised with vendors and suppliers to get technical supports and coordination for site services.
- Lead engineers during tendering, design and construction phase based on the best practices.
- Review of Vendors submission and carried out Technical and Commercial evaluation to ensure the purchase equipment meets the project specification and budget.
- Prepare of Engineering Work Schedule, Daily Pre-Commissioning activities/Commissioning schedule planning, execution, and progress reporting.
- Attend Project Meetings, FAT/SAT, HAZOP, SIL/SIF, Workshops.

Requirements:

- Minimum 12 years of relevant Engineering Design experience in Oil and Gas downstream, Petrochemical, Chemical terminals, Offshore or FPSO. Engineering Design experience in UAE will have advantage.
- Degree in a relevant Engineering discipline.
- Completed minimum 1 large scale projects (> USD100M) and 2 medium size projects as leading role in EPC.
- Knowledge of the practical application of engineering for instrumentation and control and good analytical skills to evaluate technical/functionality of system or equipment requirements.
- Possess strong knowledge in relevant Instrumentation Standards such as IEC, ISA, NFPA, IEEE, API, DEP, AGES and UAE Code.
- Strong communication skills and the ability to ask relevant questions and provide thorough explanations
- Team player with the ability to Lead and work in a multidisciplinary / multinational environment.
- Ability to work in a high pressure, fast-paced project environment.
- Knowledge of SPI INTOOLS, AVEVA e3D E&I, AutoCAD with hands-on will be an advantage.
- Experience in functional safety for the process industry as per IEC 61511. Certified functional safety engineer will be an advantage.
- Experience in execution & completion phases of projects; including pre-commissioning and commissioning



PLANT ENGTECH PVT LTD.

Senior Design Engineer (Instrumentation)

Job Description:

To support the Lead / Principal Engineer in developing, preparing proposal for I&C engineering design and provide technical guidance to Drafter and Engineer, other engineering disciplines, project team and construction team.

- Preparation of Block Diagram, System Architecture, Ladder Logic, Cause & Effect Matrix, Voltage Drop Calculation, MTO, Cost Estimation, Control Narrative, Technical Proposal, Data Sheets, Specifications, Requisitions & Technical Bid Evaluation for project/bidding.
- Design of Instrument Panel including control logic, circuit diagram and layouts Perform all aspects of Instrument design and ability to perform in both 2D and 3D design work independently (hands-on).
- Competent in performing 3D modelling of equipment, supports, trays and 3D cable routing using AVEVA E3D / S3D software, including set-up and clash resolution
- Competent in extracting drawings/documents from 3D model such as equipment layouts, Instrument Index, MTO, Wiring Diagram, and cable schedule
- Conduct 3D model reviews for Instrument and its interfaces
- Produce MTO for Instrument materials such as cables, cables glands, installation material, JB, Hook material and equipment supports
- Provide input and coordinate with other disciplines for cable trays, MCT, underground interface, process connection interface, instrument supports, etc.
- Provide recommendations for design modifications are made within the limits of established engineering specifications/codes & standards or guidelines.

Requirements:

- 8 - 10 years of relevant Engineering Design experience in Oil and Gas downstream, Petrochemical, Chemical terminals or FPSO. Engineering Design experience in UAE will have advantage.
- Diploma / Degree in a relevant Engineering discipline.
- Possess strong knowledge in relevant Instrumentation Standards such as IEC, ISA, NFPA, IEEE, API, DEP, AGES and UAE Code.
- Proactive and able to work independently, applying a structured and systematic approach
- Strong communication skills and must be self-motivated team player

Work Location: *Abu Dhabi*

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PLANT ENGTECH PVT LTD.

Design Engineer (Instrumentation)

Job Description:

- To support lead engineer for delivering the engineering deliverables according to the project requirements.
- Co-ordination between other disciplines engineers within the organization to ensure proper interface.
- Prepare Engineering deliverables such as Material Requisition, Data Sheets, Specifications, Technical Proposal, Commercial & Technical Bid Tab, Layouts, Hazardous Area Classification, Schematic Diagram, Instrument Index, DCS/ PLC I/O list, Block Diagram, Cause & Effect Chart, Cable Schedule, Cable Drum Schedule, Instrument Air-Hookup Drawing, Junction Box Termination Diagram, etc.
- Produce MTO for Instrument materials such as cables, cables glands, installation material, JB, Hook material and equipment supports
- INtools modules viz; Wiring - Loop Extraction, Hook-up module, Instrument Index, MTO, Data Sheets.
- Liaised with vendors and suppliers to get technical supports and coordination for site services.
- Conduct site check, Site Supervision, testing and commissioning support when required.
- Understands all related instrumentation codes, standards and best practices and their application to the project.

Requirements:

- 4 - 6 years of relevant Engineering Design experience in Oil and Gas downstream, Petrochemical, Chemical terminals or FPSO. Engineering Design experience in UAE will have advantage.
- Diploma / Degree in a relevant Engineering discipline
- Possess knowledge in relevant Electrical and Instrumentation Standards such as IEC, ISA, NFPA, IEEE, API, DEP, AGES and UAE Code.
- Knowledge of instrumentation design and AUTOCAD drafting.
- Able to work under pressure to meet deadlines and work overtime when required
- Good communication skills and must be self-motivated team player
- Proactive, well organised and able to work independently

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Design Engineer (Electrical & Instrumentation)

Job Description:

- Carry out Electrical and Instrument Design work assigned by Engineer/Lead Engineer.
- Input the required design data into electrical and instrumentation datasheet / calculation sheet as per the defined structure and format.
- Prepare cable schedules, interconnection diagrams, panel drawings, lighting, grounding, equipment and cable routing layout drawings
- Prepare E&I installation detail drawings, sectional views, hook-up drawing, MTO's, material requisitions for bulk materials.
- Carry out lighting illumination modelling
- Review suppliers' documents and convert into engineering deliverables.
- Perform site checking and verification
- Preparation of specification for electrical and instrumentation installation and test procedures, subcontract requisition
- Ad hoc duties as determined by management.

Requirements:

- Minimum 3 years of relevant engineering design experience.
- Minimum Diploma in Relevant Engineering.
- Proficiency in AUTOCAD.
- Able to work under pressure to meet deadlines and work overtime when required
- Willing to learn attitude

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Lead Engineer (MEP - Electrical & Instrumentation)

Job Description:

- In-charge for all engineering and site relating to MEP E&I matters of the project which includes but not limited to Building Fire Alarm System, Building Automation, Firefighting System, Access Control System, Telephone System, Office Network, Tetra Radio System, PAGA, CCTV, Power Distribution, Solar Power System, Lighting, Earthing, and Lightning protection to meet contractual specifications requirements, quality standards and local regulatory requirements.
- Leading in design coordination with contractors, consultants, client and authorities.
- To coordinate with all stakeholders for Ergonomics studies in Control Rooms.
- Conduct site surveys and assessments to gather data and information necessary for MEP design.
- Review of shop drawings / materials / Method of Statements.
- To ensure drawing registry is maintained and latest drawings / 3D Model / BIM models are available for all parties involved (site staff, suppliers and subcontractors).
- Resolve technical issues on drawings and liaise closely with all trades and authorities.
- Take lead in Virtual Design and Construction (VDC) for MEP E&I related matters. Cross check model with contract drawings and other disciplines, such as architectural, structural, sanitary, etc.
- Ensure that MEP Subcontractors provide and adhere to relevant Quality documentation/records & Prepare detailed drawings, schematics, and specifications for MEP systems, using AutoCAD.

Requirements:

- Minimum 10 years of relevant Engineering Design and site experience in M&E. Engineering Design experience in UAE project will have advantage.
- Degree in a relevant Engineering discipline.
- Knowledge of designing MEP E&I for multi-storey building, Control Room and electrical substation building.
- Knowledge of promoting energy efficiency and other sustainability solutions.
- Possess strong knowledge in UAE Codes.
- Strong communication skills and the ability to ask relevant questions and provide thorough explanations
- Knowledge of BIM, AVEVA e3D, AutoCAD with hands-on will be an advantage.

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Design Engineer (MEP - Electrical & Instrumentation)

Job Description:

- Support Lead Engineer for designing and specifying electrical and instrumentation systems to meet contractual specifications requirements, quality standards and local regulatory requirements.
- Review of vendor / subcontractor drawings and installation method statements to ensure they comply with the MEP design plan.
- Electrical design such as power distribution design which includes SLD, Load List, voltage drop calculations, heat dissipation, component selection, lighting layout, lux level calculations, Solar Power System, Earthing, and Lightning protection.
- Instrumentation design for Building Fire Alarm System, Building Automation, Fire Protection System, Access Control System, Telephone System, Tetra Radio System, Office Network design, etc.
- Using software to draft electrical and instrument designs including circuit diagram, equipment layout and routing designs and 2D/3D models (eg. E3D, BIM, AutoCAD)
- Develop Bill of Materials and Scope of Work documents to support procurement of equipment for bids and projects
- Update design documents based on instructions from others such as project design authority, as-built comments from installation and testing teams, or customer comments
- Collaborate with project teams to facilitate drawing preparation

Requirements:

- Minimum 5 years of relevant engineering design experience.
- Minimum polytechnic Diploma in Electrical Engineering or equivalent.
- Experience with 2D and 3D drafting tools such as AutoCAD, AVEVA e3D, Micro station, Solid works, BIM 360, or Revit MEP
- Possess strong knowledge in UAE Code

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Requirement : Experience in Designing & Engineering

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Senior Cryogenic(double wall) Tank Mechanical Design Engineer

Job Description:

- Responsible for designing the specifically steel and concrete cryogenic tanks.
- Dynamics of structures and earthquake resistance design.
- Interfacing the design and construction of storage tanks and industrial plants.
- Evaluating seismic and environmental reports
- Developing designs using in-house and specialist software calculation tools such as FEA, AME Tanks.
- Coordinating with civil design teams and other project disciplines.
- Checking, reviewing, approving calculations, specifications, procedures ITP's and engineering drawings.
- Checking and verifying calculations and analysis performed by others.
- Advising and assisting with seismic design basis, SSI reports and interpretation of geotechnical requirements.
- Design of steel structures Euro codes, in particular EC3 and US equivalent

Requirements:

- Min. Degree in a relevant engineering discipline. with more than 10 years of experience in cryogenic tank(double wall)tank design
- Knowledge of international design codes such as API 620, EN 14620.
- Good coordination and communication skills.

Work Location: *Abu Dhabi*

Requirement : *Experience in Designing & Engineering*

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