

# L&T-CHIYODA LIMITED

## **PROCESS ENGINEERING**

### **Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech. –Chemical Engineering with 3 to 18 years of experience

The job involves performing process engineering activities like process simulation, design calculations, thermal design of heat exchangers etc. Carry out process engineering activities like residual process design, updating of PFDs, P&IDs, design of offsite and utility systems, hydraulic calculations, process datasheets of equipment and instruments. Carry out technology evaluation, feasibility studies and licensor interactions. Identify and mitigate risks related to performance guarantees, vendor packages scope etc. Review of vendor offers, preparation of technical bid analysis

## **CIVIL, STRUCTURAL & BUILDING ENGINEERING**

### **Engineers/Sr. Engineers/Lead Engineers**

BE / B.Tech – Civil Engineering with 3 to 18 years of experience

The job involves Design of Foundations for various Plant items like Equipments, Piperacks, Equipment supporting Structures, Buildings, etc. and for other Civil Works items such as Pits, Ponds, Tanks, etc. for Oil & Gas, Refinery/Petrochemicals Plants. The candidate should have hands-on experience in utilizing STAAD-Pro Structural Design software. Exposure to/Knowledge of other Civil/Structural Softwares like Mat 3D, Foundation 3D, GTStruDI, SAFE & SAP would be desirable. The candidate shall have necessary Skills and Knowledge to prepare, check & review Design Calculations and Design Sketches/Drawings for Foundations and Structures, working in integrated 3D environment including interface with other departments and vendors. Exposure to any one plant design system viz. PDS, PDMS or SP-3D is essential.

### **Designers/Lead Designers**

Diploma in Civil Engineering with 3 to 18 years of experience

The job involves carrying out Drafting work and 3D Modeling work for the assigned items such as Equipment Foundations, Machine Foundations, Piperacks, Equipment supporting Structures, Buildings etc. The candidate should have sound concepts of Steel and RC detailing and should be able to check/review Shop Fabrication Drawings. The candidate should have hands-on experience and expertise in operating AutoCAD/Micro station. Exposure to 3D modeling in PDMS/SP3D is required. The candidate should have necessary skills and knowledge to prepare General Layout and Detail Drawings for RC/ Steel structures, working in integrated 3D environment including Interface with other departments and vendors. The Job also involves working out Material Take Off/BOQ.

## **MECHANICAL ROTARY ENGINEERING**

### **Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech – Mechanical Engineering with 3 to 18 years of experience

The job involves ensuring quality and timelines for deliverables such as specifications, Requisition, Technical Bid Analysis, comments on Vendor Prints. Thoroughly conversant with selection of rotating machinery viz. Compressors, turbines, pumps, blowers and fans. Well versed with API Standards for respective machinery and also familiar with material standards and specifications as well as the requirements of ASME. Actively communicate with other disciplines to optimize areas of interface during the design development. Support/ implement departmental quality management programs. Provide technical guidance to task force members. Interface engineering for rotating equipment with all other disciplines. Effective communication with international Client and Vendors. Experience of witnessing test for Compressors and Pumps at supplier works. Bring-in improvement in the engineering systems and alternatives through value engineering of rotary equipment systems. Trouble-shoot and resolve site problems.

## **ELECTRICAL ENGINEERING**

### **Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech – Electrical Engineering with 3 to 18 years of experience

The job involves proposal & detail engineering for Oil & Gas Onshore processing facilities, petroleum refining, petrochemicals, chemicals and fertilizers. Candidate shall have sound technical knowledge of Codes & standards, Preparation/review of engineering. Deliverables and interface with other functional departments. Candidate shall be capable to carry out; Electrical Design calculations including System study (Transient stability study, Harmonics study, Arc Flash Study, Insulation coordination etc.) using software such as Digsilent, ETAP, SKM tools, EDSA etc. Prepare/review of Single Line diagrams / Electrical drawings for Substation, Control room and Plant area viz. Earthing layout, Lighting layout, Cable route layout, Fire Alarm layout, Hazardous area classification layout. Verifying and Review of 3D Model. Procurement assistance activities viz. preparation of Specifications & Requisitions, Vendor offer evaluation and review of vendor documents for HT/LT Switchgear, Substation Automation system, Transformers, UPS, DC system, DG set, Capacitor banks, Fire Alarm systems, Cathodic protection system, Electrical Heat tracing system, Electrical bulk items, Steam/Gas Turbine Generator Package, etc.

### **Designers/Lead Designers**

Diploma in Electrical Engineering with 3 to 18 years of experience

The job involves preparing Electrical Drawings of Industrial Buildings such as Substations, Control rooms etc., and Process Plant Electrical layouts in the capacity of Designer. Exposure to Hydrocarbon Industry is required. Preparation of Electrical drawings of Substation and plant which includes Substation equipment layout, Transformer installation drawings, earthing layouts, lighting layouts, Fire alarm system layouts, hazardous area layouts, Single line diagrams, motor schematics, Cable tray/trench routing layouts, power layouts, block diagrams. Must be familiar with the aspects of interface with other disciplines in a project scenario. Extraction of Bulk MTO from layouts. Hands on experience on 2D software AutoCAD, Micro station, 3D model software like PDS/PDMS and SP3D will be an added advantage.

## **INSTRUMENTATION & CONTROL SYSTEMS ENGINEERING**

### **Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech – Instrumentation & Control Systems Engineering with 3 to 18 years of experience

The job involves preparation, review of detailed engineering activities like Requisition, Offer evaluation and Vendor print review of Field instrument items including valves, flow, level and temperature instruments. Design, Conceptualise, prepare, review of instrumentation Layouts, Hook up diagrams, Bulk MTO extraction, 3D model review, interface with other departments. Prepare, offer evaluation and Vendor print review of package instrumentation. Prepare, review of System engineering deliverables - IO data base, Logic diagram, Control narrative etc.

## **MECHANICAL PACKAGES ENGINEERING**

### **Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech – Mechanical Engineering with 3 to 18 years of experience

The job involves hands on experience in design and detailed engineering of packaged equipment like Instrument air compressor package, PSA, chemical injection packages, water treatment packages, cooling towers, material handling equipment, EOT, etc. Should have thorough experience in preparation of purchase requisitions, equipment datasheet, and evaluation of vendor offers, technical bid analysis, review and approval of vendor documents. Should be thorough with the multidiscipline engineering functions pertaining to the packaged equipment. Well Acquainted in international codes like API, ISO, DIN, BS, ASME, CMAA & other Oil & Gas related codes and standards. Experience in co-coordinating with the engineering disciplines, proposal, procurement and construction interfaces. Participating in inspection, testing and commissioning activities.

**PLANT DESIGN & PIPING ENGINEERING****Engineers/Sr. Engineers/Lead Engineers (Piping Layout)**

BE / B.Tech – Mechanical Engineering with 3 to 18 years of experience

The job involves preparation / review of equipment layouts / Piping GAD / isometrics, piping supports and specifications. Proficiency in use of International / National codes and Standards related to layout and piping engineering. Modeling of piping and equipment in 3D environment (PDS / SP3D / PDMS). Clash check and comment incorporation. Participation in Milestone model review with client / PMC. Material take-off. Vendor document review. Knowledge and experience in flexibility (Static & Dynamic) analysis of Piping systems will be an added advantage. Experience in design of refineries, petrochemical, chemical & fertilizer, oil & gas plants will be preferred.

**Designers/Lead Designers**

Diploma in Mechanical Engineering with 3 to 18 years of experience

The job involves proficiency in use of International / National codes and standard. Preparing and reviewing equipment layouts / Piping GAD / isometrics / Nozzle orientation & piping load data drawings. Carrying-out piping routing studies and MTO. Modeling of piping and equipment in 3D environment (PDMS / SP3D/PDS). Preparing drawings in 2D environment - Micro-station / AutoCAD. Clash check comment incorporation. Reviewing of vendor drawings, 3D model, isometrics and piping GADs.

**TECHNICAL SAFETY ENGINEERING****Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech – Mechanical/Chemical Engineering with 3 to 18 years of experience

Understanding of HSE software tools like PHAST, PHAST Risk, PHA, FlareSim, Sound plan, Pipe net etc. and their applications.. Knowledge of international standards, specifications and codes e.g. NFPA, API, IEC, IP, BSI and ISO procedures and standards. Finalize requirements for HSE Studies such as FHA, QRA, Bow-tie, SIL, F&G Detectors Mapping, HFE, EIA, Noise Study, RAM, etc. and review and implement recommendations in detailed design. Organise and participate in project safety reviews HAZID, HAZOP, BOWTIE, HFE, ALARP, SIL, etc. Perform Fire Protection System Design (including hydraulic calculations for fire water network, preparation of P&IDs, Datasheets of FW Tanks, Pumps, Fire suppression system, etc.) Supervise preparation of F&G system design, Passive Fire Proofing (PFP) and Hazardous Area Classification (HAC). Supervise and provide guidance in the preparation and evaluation of Plot Plans. Review contract requirements for project execution, identify Scope of Work and develop Manpower Plan. Responsible for management and control of the job executed in the group.

**PROJECT ENGINEERING****Engineers/Sr. Engineers/Lead Engineers**

BE/B.Tech – Mechanical/Chemical Engineering with 3 to 18 years of experience

The job involves planning and organizing the project engineering activities and the assigned resources (engineering specialists, subcontractors, tools, etc.) providing all needed explanation / support. Monitor and control engineering deliverables schedule as well as holds. Perform interdisciplinary co-ordination and interfacing with vendors. Monitor and control execution quantities. Candidate need to have Technical Knowledge in relevant field as well as experience in engineering management in an EPC organization. Hands-on experience of Primavera / planning tools is preferred.

**All Vacancies are at our Vadodara Office**

**Walk-In**

**14<sup>th</sup> September 2019, Saturday between 9:00 a.m. to 4:00 p.m.**

**L&T Knowledge City, Gate No. 1, N.H.8, Ajwa-Waghodiya Crossing, Vadodara-390019**

Those who cannot attend may please log on to <http://careers.lnhydrocarbon.com/vacancies.aspx>. Click on L&T Chiyoda (Part of Onshore Vertical), Click on the relevant vacancy and apply.

**NOTE:** All candidates must carry a copy of their updated CV. Candidates must have throughout First Class academic record from a premiere institute and relevant experience with a reputed Engineering Consultancy Company engaged in Refinery / Petrochemical / Fertilizer Projects. Candidates who have applied earlier need not apply.