

Job Description

Position : Team Lead – Structural Engineering (Industrial Steel Structures)

Reporting To : Head of Department (HOD)

Employment Type : Full-Time

Location : Hebbal, Bengaluru

Compensation : Industry-standard CTC

About Acufore

Acufore is a leading engineering services company delivering high-quality design and engineering solutions to global customers across the Oil & Gas, Power, Mining, Industrial Equipment, and Process Industries. We are looking for an experienced Structural Design Engineer to lead complex industrial steel structure design projects and mentor a team of engineers and detailers.

Position Overview

We are seeking a highly experienced **Lead Structural Design Engineer** with strong expertise in the design and analysis of industrial steel structures. The ideal candidate will lead engineering activities, interface directly with international clients, manage project execution, and provide technical guidance to structural designers and detailers.

Key Responsibilities

- Lead structural engineering projects independently from design through detail engineering.
- Act as the primary technical interface with customers and participate in project coordination meetings.
- Plan, monitor, and execute engineering activities within agreed schedules and project milestones.
- Execute/ Review structural designs, detailed drawings, engineering calculations, and technical specifications.
- Guide structural designers and detailers to ensure compliance with project requirements, constructability, and fabrication standards.
- Coordinate technical queries from clients, approval authorities, vendors, and other engineering disciplines.
- Ensure compliance with applicable international codes, client specifications, and quality standards.
- Mentor junior engineers and provide technical leadership to the structural engineering team.

Technical Responsibilities

Design, analyse, and review industrial steel structures, including:

- Equipment support structures
- Exhaust stack support structures
- Skid and module base frames
- Pipe racks
- Pipe and duct supports
- Access platforms and walkways
- Crane pedestals and hoist structures
- Stair towers
- Steel connection design and member sizing

Structural Analysis & Engineering Expertise

Experience in performing:

- Steel structural analysis and design
- Lifting lug and pad-eye design
- Spreader frame and spreader bar design
- In-place lifting analysis
- Transportation and transit load analysis
- Vessel impact and collision analysis
- Seismic analysis
- Bolted and welded steel connection design
- Node, joint, and local finite element (FEM) analysis
- Vessel, bin, hopper, and barge deck strength checks
- Buckling analysis of shell and plated structures
- Weight estimation and centre of gravity calculations
- Material Take-Off (MTO)

Codes & Standards

Working knowledge of international structural design standards such as:

- American Codes (AISC, ASCE, AWS)
- Canadian Standards
- Eurocodes
- British Standards (BS)
- Norsk Standards (DNV/NORSOK)

Software Skills

Proficiency in:

- STAAD.Pro
- RISA-3D
- RAM Connection
- AutoCAD

Preferred:

- ANSYS (Finite Element Analysis)

Required Skills

- Strong analytical and structural engineering fundamentals
- Excellent problem-solving and decision-making abilities
- Effective client communication and presentation skills
- Project planning and execution capabilities
- Ability to lead multidisciplinary engineering teams
- Strong coordination and mentoring skills

Educational Qualification

- B.E./B.Tech or M.E./M.Tech in Mechanical Engineering from a reputed university.

Experience

- 12–15 years of experience in Industrial Steel Structural Design Engineering.
- Experience in one or more of the following industries:
 - Oil & Gas
 - Power Plants
 - Mining
 - Petrochemicals
 - Refineries
 - Chemical Plants

Preferred Candidate Profile

The ideal candidate should possess a proven track record of delivering industrial structural engineering projects for international customers, with strong technical leadership, client-facing experience, and the ability to independently manage multiple projects while mentoring engineering teams.