

## Lead Calculation Engineer

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Company: 3C Metal

Location: , , United Arab Emirates

Category: architecture-and-engineering

- Lead the development, integration and documentation of project requirements to establish and achieve the required design.
- Challenge engineering and fabrication requirements to fulfil efficient designs through leadership and collaboration within a multidisciplinary and multicultural team of engineers (structural, piping, mechanical).
- Liaise with internal project and production teams and external vendors and subcontractors.
- Develop analytical processes and tools to improve effectiveness, quality and efficiency of the department.
- Provide input to feasibility studies, design criteria, reports, preliminary design and engineering specifications.
- Prepare conceptual and detailed design calculations, layouts, sketches, specifications.
- Guides product design and verifies structural integrity by using and developing analytical tools, FEM simulations throughout all design phases.
- Investigate field and design problems and prepare reports.
- Lead design reviews internally and liaise with Classification Societies (DNV, ABS, BV) for obtaining project review approvals.
- Supervise and lead structural and piping project team(s), monitoring progress and issue of deliverables and reporting on performance of the team.
- Preparation of Studies, Design Criteria, and Quantity Estimates.
- Contribute to preparation of proposals and man-hour estimates.
- Promote the achievement of the Project Core Expectations.
- Develop and implement Project Engineering Procedures and efficiency
- Minimum of 2+ years of technical project leadership.
- At least 5 years of Structural/Mechanical professional experience.
- Structural/Mechanical/Civil Engineering Degree, ideally MSc.
- Demonstrated strength in technical communication, articulation in design decisions and technical mentorship.
- Demonstrated understanding of international Regulatory framework for the Offshore Oil & Gas Industry such as: AISC

(WSD/LRFD), API-RP-2A, DNV / ABS, ASME. • Experience in dealing with classification societies such as DNV, ABS, BV in relation to structural and piping design. • Well versed in calculation (FEM) and drafting software (CAD) such as but not restricted to STAAD, FEMAP, ANSYS, AUTOCAD. • Demonstrated understanding of structural analysis and fatigue and failure modes associated to structural/mechanical systems. • Proficient on hand analytical calculations. • Technical knowledge of steel fabrication (piping and structural). Knowledge of High Pressure piping (5,000psi, 10,000psi, 15,000psi WP) is beneficial. What we offer: • Good benefits package • Flexible working hours • Recreational activities • Safe and healthy working environment where people can express freely their ideas • Opportunities for career development

**Profile** Founded in 1995 in France, 3C Metal and its subsidiaries provide turnkey engineering solutions to the oil and gas, green technology, renewable energy, power generation, marine and mining industries. 3C Metal's teams are specialists in the fabrication and supply of high-pressure piping and fittings, structural steel fabrication, pressure vessels, equipment installation and structural steel repairs and modifications. We are looking for a Lead Calculation Engineer to lead, guide, develop and motivate the team of Calculation Engineers to ensure all work is completed on time and according to relevant standards, and specifications. This is a multidisciplinary role on Structural, Mechanical & Piping Engineering, aiming successful development of EPCI projects.

**Country** United Arab Emirates  
**Minimum level of education required** Bachelor  
**Qualification** University  
**Minimum level of experience required** 6-10 years

**General information** Reference2024-135 Reference2024-135 You may be interested in these vacancies

#J-18808-Ljbffr

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