

# Job Description



Position Title	Department	Location	Reports To
Lead Structural Engineer	Structures	Trieste, Italy	Technical Manager

## 1. Company Activities

Meccano Engineering offers multidisciplinary design and high-level consultancy for a variety of Clients spanning from Shipyards, Ship or Yacht Owners to Oil&Gas Contractors. The technical department is organised with all the main disciplines in-house (Structures, Naval Architecture, Safety, Outfitting, Electrical, Machinery&Piping, Ventilation&HVAC, Exterior Design), each one with a dedicated team coordinated by a Discipline Leader.

Typical project activities include multidisciplinary design and project management from basic phase up to detailed structural and piping engineering. Often, we are requested to carry out the design from the feasibility and concept phase, where an even higher level of confidence and know how is put into play by our experts.

Aside from multidisciplinary project packages, the company provides consultancy engineering and analyses services for special projects in the Oil&Gas and Marine fields or for particular activities during vessel operations. Consultancies cover, but are not limited to, hydrodynamic and stability analyses, mooring analysis, offshore transportations and marine operations in general, attendance to inclining experiments, construction trouble shooting and management in support to the shipyard, supporting Clients as Technical and Design Authorities during meetings with Class or other entities.

All Company's senior engineering staff and project managers are committed to work along side our Clients as technical experts with a high flexibility and open mind, looking always to think out of the box to provide the best solutions.

## 2. Role Description

We are looking for a Lead Structural Engineer to join the group as head of the engineering structural department, guiding and coordinating the discipline engineering team and supporting our projects with structural calculations, finite element analyses and various design activities in the shipbuilding and Oil&Gas fields. Various multidisciplinary consulting activities on projects might also be required.

From a technical point of view, the Lead Structural Engineer's responsibilities will include performing and managing complex analyses, developing design and documentation of various structures with emphasis on ships, yachts, Oil&Gas Offshore and Onshore. This role will also direct subordinate company staff and assist with business development activities.

## 3. Primary Duties

- Management, coordination and mentoring of the Structural engineering team
- Project Management of complex activities, where a high level of awareness of all internal and external project interfaces is required
- Support to tendering and quotations preparation, with reference to the structural discipline
- When required, act as Company Structural Technical Authority in front of Clients, Classification Societies as well as internally to the organization
- Develop and/or check structural and outfitting drawings
- Develop solutions, in support to the engineering team, to complex structural problems with focus to the overall budget, schedule and project constraints
- Check and/or produce reports of analysis
- Attend meetings with clients, other professionals and organizations in Company's representation
- Perform global and local FE analysis according to applicable Rules
- Structural engineering department annual appraisals, in support to the Technical Manager

## 4. Decision Making Authority

- It is expected full authority for technical decisions relevant to project work
- Department organization and procedure changes will need to be discussed with and approved by the Technical Manager

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## 5. Supervisory Responsibility

- Yes, direct supervision of the structural engineering team (currently two engineers)

## 6. Work Contacts

Project Engineers/Managers	Frequent
Other Discipline Engineers	Frequent
Technical Manager	Frequent
External Clients/Entities	Frequent
Company Senior Management	When Required

## 7. Physical Effort and Work Environment

- Office based role, however business trips typically for meeting clients and on-board surveys in Italy and abroad will be occasionally required

## 8. Competencies/Knowledge, Skills and Abilities

### Technical Competencies

- Broad Experience in structural analysis of ships and/or other floating vessels
- Familiarity with design and analysis using various materials including but not limited to metals such as steel and aluminum
- Proficient with modelling and analysis of FEA software
- Comfortable performing in an environment that requires independent evaluation, judgment and decision making
- Ability to understand complex problems and to lead others to alternative solutions
- Excellent command of the English language
- Excellent technical reporting skills
- CAD drawing experience
- Knowledge of TEKLA, SAP2000, Nastran/Patran, Maestro Marine is an advantage

### Behavioural Competencies

- Attention to details
- Good communication and presentation skills
- Ability to work independently and as part of a project team
- Flexibility and can-do attitude

## 9. Minimum Requirement

- Master Degree in Structural Engineering, Naval Architecture, Ship Science or similar
- Minimum 8-10 years of experience in a similar role within a consultancy engineering company or shipyard
- Must be fluent in Italian and English
- Willing to relocate to Trieste (Italy)
- Possesses advanced knowledge of various design and documentation software