

Job Description



Position Title	Department	Location	Reports To
FEM Specialist	Structures	Trieste, Italy	Discipline Leader

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 design 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.

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 FEM Specialist to join the group within the structural department, supporting our projects with structural FE 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 FEM Specialist responsibilities will include performing and managing FE analyses, developing calculation reports, tutoring junior engineers. Exposure to class design and documentation of various structures will also be a possibility.

3. Primary Duties

- Perform global and local FE analysis according to applicable Rules
- Check and/or produce reports of analysis
- Development of classification structural and outfitting drawings
- When required, coordination of discipline activities within the assigned projects
- When required, act as Company FEM Technical Authority in front of Clients, Classification Societies as well as internally to the organization

4. Decision Making Authority

Decisions limited to those relevant to structural Engineering within project framework

5. Supervisory Responsibility

Possibly

6. Work Contacts

Other Project Engineers	Frequent
Other Discipline Engineers	Frequent
Department Discipline Leader	Frequent
Technical Manager	When Required
Clients	Frequent
Project Managers	Frequent

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

- Good experience of modelling and analysis with FEA software and knowledge of the relevant Rules
- It is not required proficiency with a specific software, as long as there is deep knowledge of at least one

Job Description



of the typical software utilized in the market in the marine and offshore fields

- Experience in structural analysis of ships and/or other floating vessels
- Familiarity with design and analysis using various materials including but not limited to steel and aluminum
- Excellent command of the English language
- Excellent technical reporting skills
- CAD drawing production (scantling plans, production outfitting drawings, etc.)
- 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

- At least 3-5 years in a similar role within the shipbuilding or offshore industries
- Master Degree in Structural Engineering, Naval Architecture, Ship Science or similar
- Must be fluent in Italian and English
- Willing to relocate to Trieste (Italy)
- Possesses advanced knowledge of various design and documentation software