



professional opportunities in **eni**  
for **mechanical engineers**



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### drilling engineer

Coordination, management and execution of specialist studies for the design and execution of well drilling and completion activities, defining the best technical solutions in relation to the company's business plans. Coordination and management of support activities and services required to develop well projects, according to criteria for excellence both in the technology employed and the adopted solutions existing on the market. Managing and developing company know-how, establishing reference guidelines for the best and most advanced engineering solutions, for application to oil well drilling and completion activities, to ensure company competitiveness at an international level.

### construction engineer on/offshore

Through participation in Project Team activities, management of the overall construction process for onshore and offshore rigs and platforms, structures and pipelines; coordination of contractors and necessary equipment; ensuring all rigs and platforms are standardized.

### mechanical systems engineer

Automation of mechanical plans based on predefined process rules. Preparing specifications and data sheets for equipment, heat exchangers, tanks, valves, etc., analyzing offers and providing technical advice, internal liaison with other specialist departments during project implementation. Performing post-supply follow-on activities, onsite assistance during the installation and pre-commissioning/commissioning stages.

### pipeline network management

Coordination of operational activities efficiently and safely along the complete pipeline network and all connected apparatus throughout Italy. Management is guaranteed through the coordination and monitoring activities carried out in the facilities spread across the whole of Italy and organized into eight Districts and 55 Maintenance Centres.

### maintenance engineer

Preparation, analysis and application of the most appropriate maintenance methods (predictive, preventive, cyclic and inspection-based) to maximize plant safety, optimize costs and ensure reliability. Integration into the work team responsible for operational management to draw up the maintenance budget for the specialist mechanical area. Working with line departments to research and optimize methods and techniques for monitoring, diagnosis, critical analysis, intervention and stock definition; interpreting and disseminating regulations and procedures relating to maintenance.

### buyer/contract engineer

Purchasing of products and services based on technical specifications provided by the lines of business, using qualified suppliers. Management of purchasing budget and tenders, including online tenders, in compliance with national and international regulations and company procedures on the subject.

### project specialist engineer

Design engineering activities within plant and equipment development projects for the Oil&Gas business (depending on the specific nature of the branch involved, the design work will relate to: structural, mechanical, electrical, electronic, civil and other parts). Definition of technical specifications, taking into consideration cost estimates and the quantities of material required to build the plant. Using software for analysis and design, preparing design documents and technical opinions to support the purchasing process. Production of technical instructions for suppliers and verification of the finished product. Support for the execution and commissioning of the plant. Support for audit activities on designs and projects, troubleshooting and vendor qualification.

## yard development engineer

Engineering design activities, with emphasis on the development and construction of operational workyards. Land conformation analysis, workyard layout development, preparing logistics facilities, coordination of workyard construction phases, definition of ordinary and extraordinary workyard maintenance requirements and monitoring.

## robotic systems engineer

Organization of projects for the construction of Robotic Systems to be applied in the Oil&Gas field (e.g. telemanipulation and computer vision systems, man-machine interface, ROV (Remotely Operated Vehicles), Autonomous Underwater Vehicles (AUV) and deep water monitoring stations). The robotic systems engineer will be responsible for:

- defining functional requirements and system specifications;
- architectural design of mechanical systems for robotic application and component selection;
- system modelling and functional simulation;
- detailed design and specification of materials and components;
- specification and supervision during execution, qualification testing and laboratory tests;
- technical support in the purchasing of systems and components;
- supervision of construction, integration and tests.

## welding engineer

Technical engineering activity with special emphasis on the design, construction and control of metallic structures. Definition of engineering procedures for welding and tests to prevent defects, ensure tensile strength and corrosion resistance of welds carried out on onshore and offshore structures and pipelines.

## NDT (non destructive testing) engineer

Technical engineering activity with special emphasis on the design, construction and monitoring of metallic structures. Definition of engineering non-destructive testing procedures of butt welds and structures to ensure their quality and safety. Non-destructive testing is used to detect defects, test tensile strength and corrosion resistance of onshore and offshore pipelines and structures.

## painting and coating engineer

Technical engineering activity with special emphasis on the design, construction and monitoring of metal structures. Definition from an engineering point of view of coating materials and procedures for onshore and offshore metal structures, to guarantee quality, safety and resistance to corrosion.

## mechanical engineering technology engineer

Supervision of design and selection of the best technical solutions for machines and other mechanical equipment, ensuring overall technical integrity and verification of designs ordered from contractors; support for the definition of the technical conditions included in purchase contracts for mechanical equipment.

## production engineer

Overseeing serviceability and maintenance of plants and equipment in accordance with defined standards; coordination of information/data collection for work carried out on operating plants; definition of performance indicators for production plant and monitoring of trends in order to identify any variances in relation to business targets.

## quality system engineer

Management of the Quality System. Advice to operational lines on the maintenance and development of required quality standards for processes and projects. Management of the Quality System includes analysis of organisational processes, making recommendations to improve processes, definition of quality standards (KPI), performance of internal audits for verification purposes and liaison with external certification bodies.

## fabrication supervisor

Pre-fabrication of Oil&Gas plants at foreign yards. Yard supervision: work area activity support, lifting and jacking, assembly of structures, yard layout, ground floor, load capacity; handling support, lifting and load-out; promotion of safe working practices and environmental protection in accordance with safety standards.

## mechanical design

Construction design and supervision of mechanical equipment and infrastructures. Developing skills in the design of proprietary equipment, machinery and critical lines; involvement in the issuing of purchase specifications and plant construction. Execution of important company projects with involvement in all project phases, from planning to design, budgeting and monitoring construction and implementation onsite.

## lubes technical support

Commercial office support for the full range of technology applications in the lubricant sector for automotive and industrial oils, act as intermediary with distributors and direct sales agents. Supporting the sales team in liaising with the automobile industry, engine manufacturers, component suppliers and developers regarding specific product requirements and future market trends. Preparation of technical documents regarding product safety in accordance with legislation.

### note:

- many positions also apply to aerospace engineering;
- the job opportunities listed are open to both men and women, in line with equal opportunities legislation.