

professional opportunities in **eni** for **geologists**



eni corporate university

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geologist/geophysicist for seismic analysis

Supervision of operations aimed at ensuring the technical and economic control of seismic findings for surfaces and wells, produced by external contractors, including those carried out in support of foreign associates. The work also includes validation of data and management of data flows, compilation and distribution of periodic and final documents. The geophysical operations are carried out in various environmental situations, both on and offshore. Cooperation in the definition of contractual technical specifications. Participation in research projects for the development of new techniques for the acquisition of seismic data. Planning, execution and coordination of production of timely and in-depth seismic data, thereby contributing to the definition of geophysical/geological models and the definition and assessment of exploration risk and development risk for oil and gas fields. Definition of optimum processing strategies in terms of quality, time and costs.

geologist/geophysicist for integrated geophysical studies

Production of geophysical studies including integrated studies for the acquisition and production of geophysical data, seismic picture of wells, mapping, studies of seismic stratigraphy and seismic characterization of oil and gas fields for the definition of the fluid content of the reservoirs, thereby contributing to optimal definition of the exploration model and the reservoir model. Seismic and geophysical interpretation both on a regional scale and for individual oil and gas fields, also by integrating information provided from well data, geophysical data and geological/sedimentological data. Participation in research projects for the development of new techniques.

operational geologist

Planning, definition of technical specifications and coordination of programmes for the acquisition of geological data for oil wells with particular attention to information on the presence of hydrocarbons. Monitoring and active participation in direct data collection at the plant during drilling work in coordination with the operational base or head office. Preliminary interpretation of data collected and subsequent production, in the office, of studies to calculate subsoil pore pressure gradients, mainly for the purpose of establishing the maximum columns of hydrocarbons in the reservoir and to evaluate the capacity of the rocks covering the oil traps.

structural and regional geologist

Reconstruction of the structural geological evolution of an area or of a prospect in cooperation with the exploration geologists and geophysicists via interpretation of the regional seismic picture, integrated with Remote Sensing studies and outcrop studies. Technical support for the development of the geological model of an area, through reconstruction of the structural geological evolution using retro-deformation and balancing techniques to generate basin simulations and oil system simulations integrating the sedimentological models, structural models and geochemical information. At the reservoir level, execution of studies and models of deposit turnover through geometric and lithological analysis of the discontinuities; evaluation of the potential sealing of faults in the deposit area. Supervision of execution of structural studies by associates or outside contractors to ensure quality and excellence.

Reconstruction of the Thermic and Hydrodynamic Model, by evaluation of the type and volume of hydrocarbons produced by the source and the migration and load mechanisms of the structures, cooperating in the definition and assessment of area exploration risk.

environmental geologist

Monitoring, both for surfaces and wells, of geodynamic phenomena and management of methodologies for the integrated production and interpretation of different types of data. Coordinating work on environmental geology, prevention, mitigation and monitoring of local geodynamic phenomena, with particular attention to the integration of environmental protection. Evaluating geological-geomorphologic risk, with particular reference to dynamic coastal and hillside phenomena, microseismic phenomena, hydrogeological factors and fluid injection/reinjection.

stratigrapher and sedimentologist

Production of sedimentological models through integrated analysis of core sample, log, seismic and soil data in a work team with biostratigraphers and sedimentary petrographers, in order to contribute to the reconstruction of the evolution of the sedimentary basin for the definition of exploratory play concepts and for modelling of the oil bearing system. Reconstruction of the 3-D distribution of the reservoir facies and of the permeability barriers to be used for the generation of the static model of the reservoir for oil and gas field development, production and storage. Study of the variations in petrophysical behaviour of the rocks induced by diagenetic evolution in sedimentary bodies and in particular in the reservoir unit. Supervision of sedimentological, biostratigraphic and petrographic studies by associates and external contractors to ensure quality and excellence.

reservoir geologist

Measurement of the development potential of Oil&Gas discoveries, well location and evaluation/determination of the relevant requirements in terms of acquisition of well data and linked procedures. Construction of integrated 3D "geocellular" models taking into account all the geoscientific data (petrophysical, geological, sedimentological, acoustic, etc.) available. Participation in research projects and technological innovation in the field of study of oil and gas deposits. Specialist support for project teams and the various geographical units. Preparation and supervision of geological work on the study of deposits including: reservoir geometry, well correlation, integrated petrophysical characterization, modelling of facies and petrophysical parameters, evaluation of the volumes of hydrocarbons in place. Identification of potential actions to ensure the maximum efficiency in the development of the oil and gas fields. Application of knowledge and experience acquired in characterizing deposits. Definition and description of hydrocarbon deposits. Identification of the key uncertainties in the sub-surface data and in the resulting interpretation processes and analysis of the possible alternatives and risk scenarios (Risk Analysis).

petrophysicist

Managing, developing and disseminating know-how in the area of geological-petrophysical interpretation of well data (log, core sample, etc.), for purposes of reservoir characterization. Defining of the petrophysical model, integrating all the petrophysical data (logs, core sample, mud logging and test) to support the activities of Exploration, Production & Development. Quantitative interpretation of logs in open and piped wells to determine the lithology and formation properties (porosity, permeability, Sw, net pay, etc.), identification of mineralized levels and fluid contacts. Integrating log data with other data and information available: core sample analysis (routine and special), surface logging, dynamic, petrographic, structural and sedimentological data, etc. for the creation of a consistent petrophysical model. Defining objectives for the acquisition of well data for purposes of petrophysical evaluation and support for the preparation of log acquisition programmes. Defining technical specifications for the acquisition of log data and supporting quality control. Determining the objectives of the programmes for core sample acquisition and laboratory requirements.

experimental geologist, geochemist and mineralogy

Evaluation of third party studies and/or petrophysical reports. Interpretation of microscopic electronic data and diffractometry for characterization studies for *clastic* and *carbonatici* reservoirs for both exploration and development/production projects (integrated mineralogical analysis and quantitative description of the network of pores aimed at experimental characterization of the rock properties). Modelling of reservoir quality using dedicated software, as well as working with others on research projects in progress.

note: the job opportunities listed are open to both men and women, in line with equal opportunities legislation.