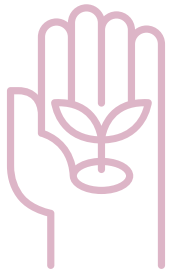
TO EXPLORE NEW ENERGY SCENARIOS, WE NEED NEW POINTS OF VIEW.

LIKE YOURS.

MASTER GEMS ENI 2026-2027

MASTER IN GEOSCIENCE *FOR* **ENERGY**

eni



SCENARIO

The energy sector has long begun an unprecedented transition phase, driven by the need to decarbonize and to develop the alternative and complementary energy resources to replace hydrocarbons, resulting in the development and implementation of new business models.

Since 2014, Eni has been committed to being a major player and an active contributor to the energy transition by reorganizing and diversifying its business model with the strategic goal of becoming a Carbon Neutral (scope 1, 2 and 3) Company by 2050.

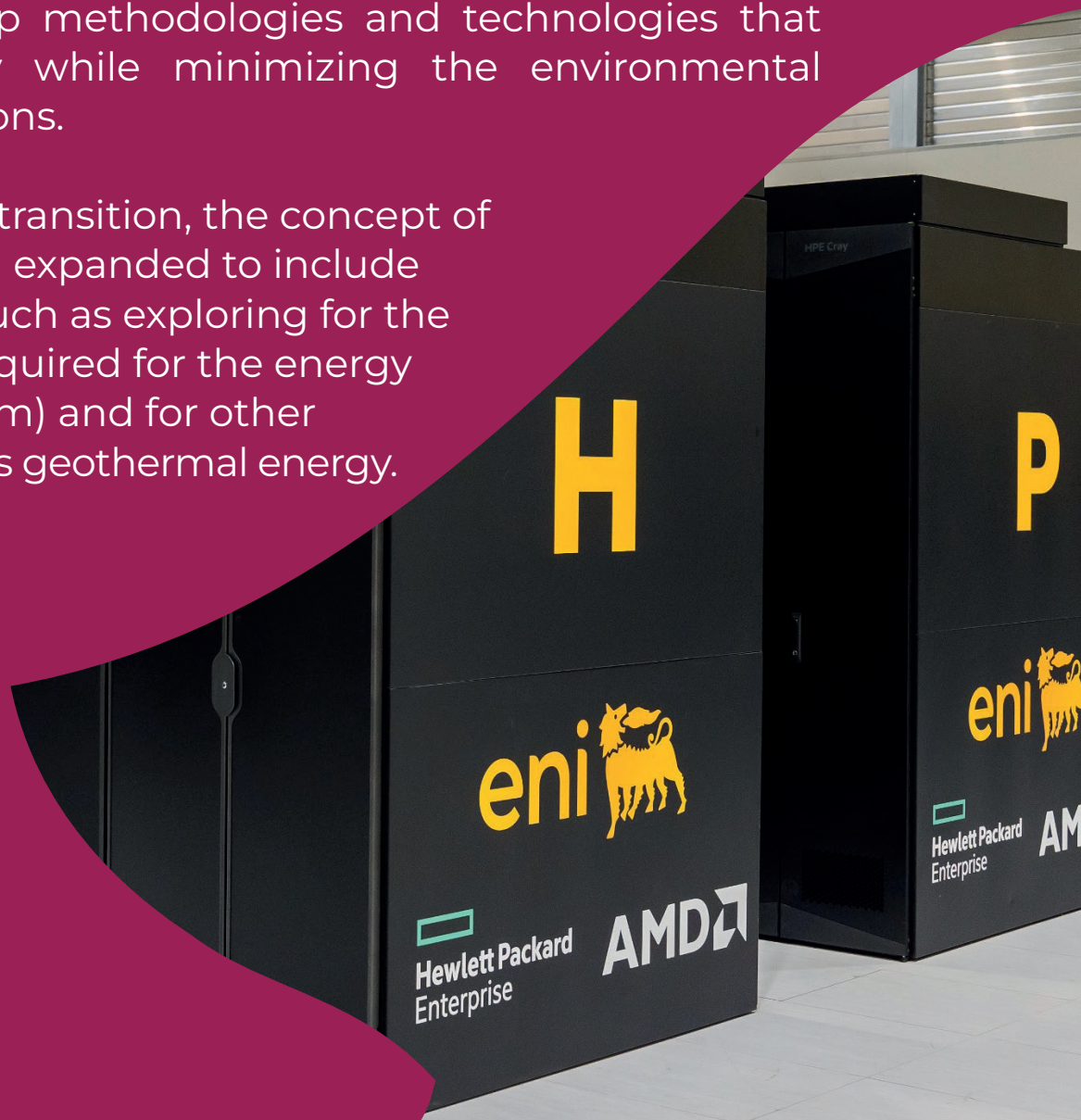
EXPLORATION IN ENI

Knowing where to start before starting: Exploration is the first step in the energy cycle; it requires the collection and interpretation of all the information needed to identify the best opportunities for developing geo-resources. Eni has been a world leader in exploration for years thanks to an integrated approach of all the disciplines of geosciences.

This approach allows the Company to interpret and reconstruct the subsurface using its own software and technologies developed through continuous research. These innovative technologies are regularly and successfully implemented in the exploration process, using the high performance computing capabilities of the Eni's Green Data Center (Eni's supercomputer

HPC6 is number 6 in the Top500 in November 2025).
Eni's experience in geo-resources research has enabled the Company to develop methodologies and technologies that maximize efficiency while minimizing the environmental impact of its operations.

Through the energy transition, the concept of exploration has been expanded to include new opportunities such as exploring for the 'Critical Elements' required for the energy transition (e.g. Lithium) and for other geo-resources such as geothermal energy.



WHY THE GEMS MASTER'S?

GEMS is a high-level training course, delivered within the Company, which aims to complete the academic background of young graduates and to prepare new professionals to face the complex challenges of the energy transition.

The program offers participants the opportunity to acquire both hard and soft skills, together with a unique vision of the energy sector of geo-resources, essential elements required to face the challenge of an increasingly digital future focused on a progressive transition to more sustainable energy sources in terms of emissions impact.

The Master's aims

- Preparing students to apply geoscience in multidisciplinary and multicultural contexts, directed towards exploration and development of geo-resources to support the process of decarbonization and energy transition.

- Developing soft skills (project management, team working, communication)

- Strengthening cutting-edge areas of expertise related to technological innovation (e.g. big data, machine learning, artificial intelligence, etc.).

WHO WE ARE

Eni is a global energy company operating in 61 Countries, with over 30.000 employees. Originally an oil & gas company, it has evolved into an integrated energy company, playing a key role in ensuring energy security and leading the energy transition. Eni's goal is to achieve carbon neutrality by 2050 through the decarbonization of its processes and of the products it sells to its customers.

In line with this goal, Eni invests in the research and development of technologies that can accelerate the transition to increasingly sustainable energy. Renewable energy sources, bio-refining, carbon capture and storage are only some examples of Eni's areas of activity and research. In addition, the company is exploring game-changing technologies such as fusion energy - a technology based on the physical processes that power stars and that could generate safe, virtually limitless energy with zero emissions. Eni's traditional activities, such as hydrocarbon exploration and production, continue to generate value for the company, supporting the transformation process while ensuring the reliability of energy supply.

To support its transformation and transition process, Eni has established a number of satellite companies, thereby building a corporate structure that helps free up new investments in strategic business sectors.

Plenitude is present in the market with a unique business model integrating production from renewables, the sale of energy, energy solutions and a large network of charging points for electric vehicles.

Enilive is the company engaged in bio-refining, biomethane production, smart mobility solutions, including the Enjoy car sharing service, and marketing and distribution of all energy carriers for mobility, also through more than 5,000 Enilive Stations in Europe.

Selected business combination as **Var Energy** and **Azule Energy** (a joint venture with BP) are satellite companies dedicated to hydrocarbon exploration and production in Norway and Angola respectively.

Among other companies, **Versalis** is committed to transforming itself into an increasingly sustainable and specialised chemical company with a strong focus on circularity and decarbonization. This involves developing complementary recycling processes, expanding its presence in end markets and achieving a leadership position in chemistry from renewables.

Eni Rewind is Eni's environmental company focusing on remediation and waste management. With twenty years of experience in the remediation of industrial sites, it provides effective solutions for public and private customers in Italy and abroad.

Eni's future depends on everyone's ability to contribute in an effective and innovative way: this is why we are looking for enterprising people, with the desire to get involved in the world of energy and join us in our mission.

We recognize the value of the skills of our people and the importance of their contribution to the development of the new Eni. Together we have another energy!

WHO ARE WE LOOKING FOR?

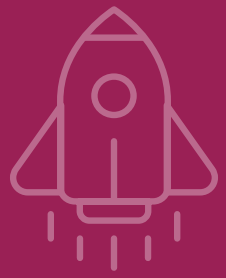
We want young people capable of exploring for the energy and geo-resources of tomorrow and ready to take on the exiting challenges of technological innovation that the energy transition process requires. People able of envisaging and delivering the new future of energy and geo-resources.

Requirements

A Master's Degree in any one of the following disciplines: Physics, Aerospace Engineering, Civil Engineering, Telecommunication Engineering, Energy Engineering, Computer Engineering, Mechanical Engineering, Environmental Engineering, Mathematics, Mathematical-Physical Modeling for Engineering, Geological Sciences and Technologies, Sciences and Technologies for the Environment and Territory, Geophysical Sciences.

Minimum Master's Degree grade: 100/110 or equivalent for foreign degrees. Candidates graduating between the application deadline (August 10th 2026 for international candidates, August 25th 2026 for Italian candidates) and November 2nd 2026 must have a weighted exam average of at least 27/30 or equivalent. Applicants must not turn 29 by December 31st, 2026.

Excellent knowledge of English is required. Candidates must have Italian citizenship, citizenship of an EU country, or a residence permit valid for the entire duration of the Master. For foreign candidates, knowledge of Italian is considered a plus.



THINKING ABOUT THE FUTURE:
WHAT COULD STUDENTS DO AT ENI AFTER THIS MASTER'S DEGREE?

The Master's students, with their different backgrounds, will be able to carry out various activities in Eni.

Geologists

Studying the phenomena that are responsible for the formation of natural resources, through disciplines such as sedimentology, stratigraphy, petrography, structural geology, geochemistry, geotechnics, environmental geology, geothermal energy; developing, in multidisciplinary teams, conceptual and numerical three-dimensional models of outcropping and subsurface geological structures and their physical properties; following the activities of drilling both onshore and offshore wells and providing a description of the rocks and fluids; performing the assessment of the hydrogeological or seismic risk associated with the activities of the company and implementing the appropriate risk mitigation actions; elaborating environmental impact studies; setting up monitoring plans for both the surface and subsurface aspects of fluid storage projects (CO_2 e H_2).

Geophysicists

Visualizing and evaluating the physical properties of the subsurface from the data aquired on the field and by studying and analyzing the propagation of seismic waves in the subsurface; using the three-dimensional numerical modeling

of subsurface structures in order to represent and exploit potential reservoirs or storage sites in the best possible way; developing algorithms and technical-scientific codes; using the results of Big Data analysis, integrating all possible geological and geophysical numerical information; applying their specific skills in the mathematical and physical aspects typical of subsurface modelling.

Engineers

Developing algorithms and technical-scientific codes aimed at geological and geophysical applications; using and optimizing proprietary high-performance computing codes ; carrying out the de-risking assessments of infrastructure on the seabed or in sensitive areas from the point of view of environmental impact; working on the development of the different energy sources; developing new algorithms for Big Data analysis (both in real time and static) to support the monitoring of operations; applying their specific skills in the mathematic and modelling aspects.

Mathematicians

Developing mathematical models for geology and geophysics; implementing algorithms to support geology and geophysics studies; carrying out uncertainty and risk analyzes in the exploration and storage contexts; using innovative technologies to manage large amounts of data and recognize possible correlations between geological and geophysical data; implementing three-dimensional numerical modelling in order to better represent and exploit potential geo-resource deposits and storage sites; applying their mathematical and modeling skills to facilitate the integration of data and the interpretation of models by end users.

Physicists

Using and implementing three-dimensional numerical modelling in order to represent and exploit the potential geo-resource deposits and storage sites; developing models for geology and geophysics; developing high performance computing algorithms and codes (HPC); supporting geologists and geophysicists in the interpretation of data and results of numerical simulations to reconstruct the geological evolution

of the sedimentary basins and to estimate the fluids presence in the subsurface; implementing the appropriate actions for risk mitigation performing environmental impact studies.

The extraordinary computing potential of Eni's HPC-Green Data Center is available to all these professionals, to achieve the best definition of complex data processing with a reduction in computational time.

THE MASTER'S PROGRAMME

The Master's will last 9 months, will be held at the headquarters of Eni Corporate University in San Donato Milanese (MI). The Master's program will consist of classroom courses and seminars, case studies, field trips and an entire month will be dedicated to the development of an Exploration Project. The lessons will be taught in English by a team of national and international academic teachers and Eni experts who will transfer the technical knowledge gained through their professional experience. Students will have the opportunity to follow a preparatory path of knowledge alignment, planned for a more effective participation in the Master.

MASTER'S MODULES

Alignment module:

basics of Geology and Geophysics applied to the study of the subsurface and the search for energy sources.

Energy Transition Module:

the path of the current energy scenario towards a sustainable future; Eni's approach to the energy transition and research by identifying alternative energy solutions; communicating the energy transition effectively; the role of critical minerals and

geothermal energy in the energy transition; diversification for decarbonization: the circular economy, CCUS, H_2.

Geophysics module:

seismic and non-seismic indirect methods of subsurface investigation for the reconstruction of the geological model; seismic signal modeling and analysis; study of fluid storage sites such as CO_2 o H_2.

Geology module:

detection and analysis of subsurface data; characterization of rocks capable of containing and storing fluids; study of the tectonic structures and their impact on the circulation of fluids in the subsurface; reconstruction of geological models and their evolution; descriptive and predictive modelling of geological sites with potential for geothermal and storage of CO_2 o H_2.

Energy Exploration Module:

identification and characterization of a geo-resource or CO_2 storage objective; technical assessment of its potential and associated economic value; analysis of the connected risk;

exploration and geosciences in the development of renewable energies and in scientific research aimed at finding differentiated and /or integrated energy solutions.

Energy Policies/Big Data/Data Science:

advanced technologies and approaches for the organization, management and understanding of a large amount of data collected for successful, effective and sustainable exploration.

BUSINESS SUPPORTS

No enrollment fee is foreseen. All admitted students will receive from Eni a monthly scholarship of € 1,500 gross, for the entire training period (9 months).

Eni will also provide educational material, company canteen and tutorship.

SELECTION MODE

Participants will be selected by Eni, based on its own policies, through aptitude and technical tests.

TIMING

Deadline for applications: August 10th, 2026 for international students; August 25th, 2026 for italian students.

Selection tests: in the first half of September 2026.

The dates and instructions related to the selection process will be communicated to the candidates via email after the deadline for applications.

Master's start: November 2rd, 2026

ENI CORPORATE UNIVERSITY

For more detailed information regarding the requirements, deadlines and methods in order to send the application form, select eni.com
Careers - Training - Master and higher education - GEMS Master's

For more info regarding this Master's program
Email: Eni.Master@eni.com