



MASTER COURSE IN EARTH SCIENCES @UNIMI



**UNIVERSITÀ DEGLI STUDI
DI MILANO**

DIPARTIMENTO DI SCIENZE
DELLA TERRA "ARDITO DESIO"

WHO

The MSc degree is open to all BSc graduates in Geological Sciences who have obtained their degrees from Italian or qualified foreign universities and to all graduates in related disciplines who have **at least 44 ECTS in geological subjects** on their curriculum. Admittance is by interview.

WHAT

A **two-year program, for 120 ECTS total, structured on two curricula** both designed in a transdisciplinary manner but completely independent to ensure a high degree of specialization. Each curriculum includes 33 ECTS from mandatory courses to level knowledge on geology key fields, 48 ECTS from elective courses to explore topics of personal interest, 9 ECTS for an internship, 3 ECTS for the development of other skills, and 27 ECTS of thesis project. Courses and internships focus on field work and laboratory activities for **hands-on, immersive learning**.



WHY

To build a successful career tackling global challenges in energy transition, sustainable land management, and natural resource conservation, with **opportunities in diverse industries and research worldwide.**

WHERE

Based in Milan, a vibrant city with excellent global connections, the program offers proximity to the diverse geological settings of the Alps, Po Valley, and Apennines. Students will engage with a Department committed to **excellence in Earth Sciences**, featuring cutting-edge laboratories and decades of fieldwork expertise.

WHEN

Courses begin **in the Fall semester.** For more information and deadlines, visit our website.



Open
Access



Course location
Milan



120
ECTS

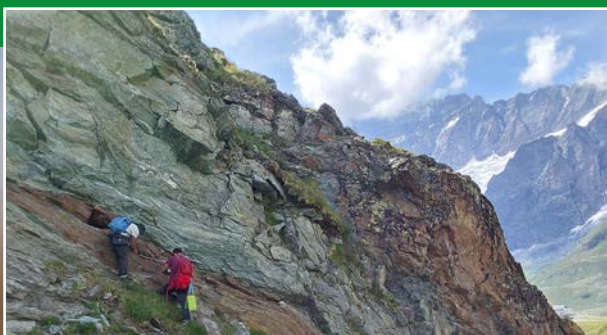


Language
Italian, English



MASTER COURSE

Are you eager to join the next generation of **Earth Sciences experts**, driving the energy transition and sustainable resource management? The Master's Degree in Earth Sciences at the University of Milan offers a unique chance to study amidst **academic excellence and natural wonders**. Located in vibrant Milan, near the majestic Alps, the program provides students in Earth Sciences with opportunities to explore diverse geological environments.



This two-year program, **structured in two curricula**, emphasizes hands-on training through fieldwork, lab activities, internships, and collaborations with leading institutions and industries in Italy and beyond.

With a focus on **cutting-edge methods** and access to **renowned geological sites**, graduates are equipped to tackle challenges in sustainable resource use, hazard mitigation, and environmental conservation, **ready to excel in both public and private sectors**.

1. The Environmental and Engineering Geosciences (*EEG*) curriculum

Provides advanced training to address challenges related to sustainable land management considering both past and expected climate changes, integrating knowledge of natural processes and innovative monitoring and modeling techniques.





The educational track enables them to:

-  **Define geological-technical and hydrogeological models** through state-of-the-art surveys and monitoring activities;
-  **Develop advanced digital cartography** with GIS and artificial intelligence;
-  **Analyze, model, reconstruct and predict environmental scenarios** in response to climate changes;
-  **Contribute to sustainable development** through hydrological risk mitigation and effective and efficient management of water resources, for geothermal purposes as well.





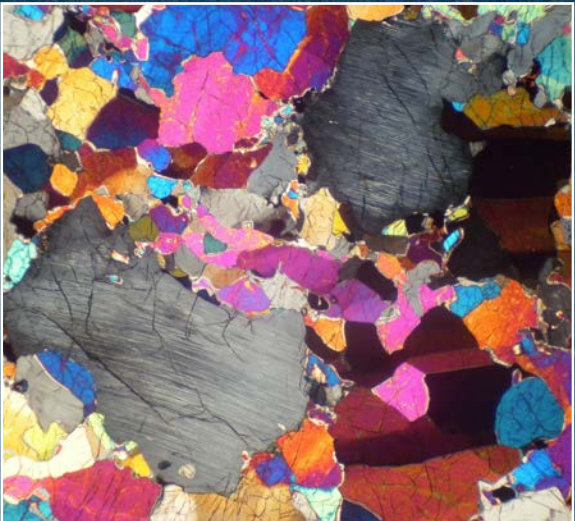
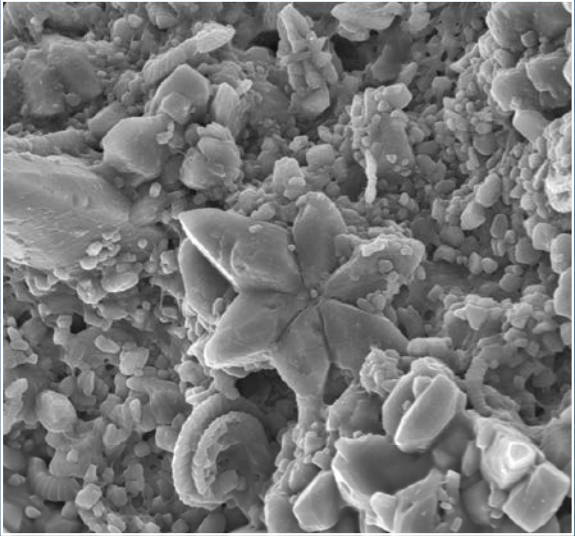
2. The Earth Processes and Resources (EPR) curriculum

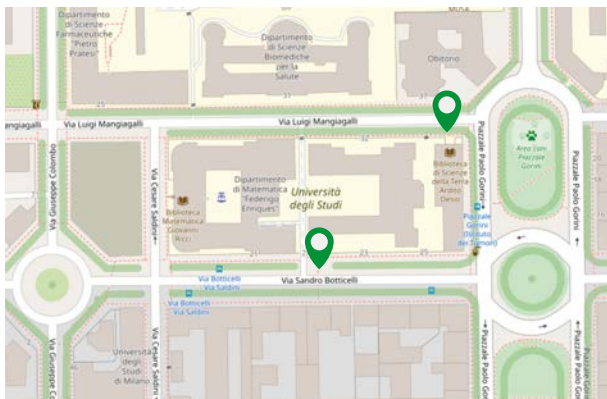
Provides advanced training in the study of the Earth and planetary materials, of the geological processes that shape the Earth's interior and surface and their change with time, as well as the phenomena governing the formation, transformation, and distribution of fluids, minerals, and rocks.

The program enables students to:

-  **Study and analyze geological processes and planetary materials** using cutting-edge experimental equipment, analytical facilities and advanced modelling techniques;
-  **Characterize and manage natural resources and synthetic analogs**, addressing challenges related to the sustainability and supply of critical resources;
-  **Protect and enhance geological heritage** through innovative techniques;
-  **Contribute to the energy transition** through the responsible management of georesources.

MASTER COURSE IN EARTH SCIENCES





 **Via Mangiagalli 34**

Administrative Secretariat, labs and teaching facilities

 **Via Botticelli 23**

Student Admissions and Access, labs and teaching facilities



Visit Master
Course website



Visit Geocareers
website



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