INTERNATIONAL MASTER IN CO_2 GEOLOGICAL STORAGE · ZAGREB + ROME · 2027

What will you study in the CO_2 Geological Storage master?

Every stage of a CO_2 storage project, field by field. Here are the questions candidates ask, with the modules that answer them.

Capture → Transport → Injection → Storage → Monitoring

CLIMATE AND SOCIETY

Why store CO_2 underground, and what does society think?

Because it can help tackle climate change. You see the whole storage chain, its role in tackling climate change, and how people and stakeholders view it.

Modules 01

CAPTURE AND TRANSPORT

Where does the CO_2 come from, and how does it get to the site?

From industrial sources. You compare capture technologies, how CO_2 is transported, and where capture runs today.

Modules 02

GEOSCIENCE AND EXPLORATION GEOPHYSICS

What geoscience will I need?

The essentials, taught from the start. Rocks, basins and structures, plus seismic interpretation to find traps and build 3D geological models.

Modules 00 · 03

SITE SELECTION AND CAPACITY

How do we find a site, and how much can it hold?

By screening basins, then characterising sites. You estimate capacity in saline aquifers, depleted fields, coal seams and salt caverns, and judge caprock quality.

Modules 06

DRILLING AND WELLS

How does CO_2 get down there?

Through wells designed for it. Drilling equipment, muds, trajectories, well control, testing and completions, with hands-on design calculations.

Modules 04

RESERVOIR ENGINEERING AND NUMERICAL MODELLING

How does CO_2 behave in the reservoir?

You'll calculate and simulate it. Multiphase flow, CO_2 PVT, injectivity, then flow simulations of migration, pressure, dissolution and trapping.

Modules 05 · 07

CO_2 UTILISATION AND GEO-ENERGY (CCUS)

Can stored CO_2 do useful work?

Yes. Enhanced oil and gas recovery, CO_2-plume geothermal energy, mineral carbonation, storage in basalts and bio-CCS.

Modules 08 · 13

RISK AND GEOMECHANICS

Is it safe? What could go wrong?

Risks are assessed at every stage. Leakage pathways, environmental impacts, remediation, stress changes, fault stability and induced seismicity.

Modules 09 · 12

GEOPHYSICAL AND GEOCHEMICAL MONITORING

How do we know the CO_2 stays put?

By measuring it, in the field. Seismic, electrical and electromagnetic surveys, and soil-gas, water and marine sampling during the field work in Italy.

Modules 10 · 11

ECONOMICS AND REGULATION

Who pays, and who sets the rules?

That's a field of its own. CCS economics, EU and national regulation, and how projects join industrial clusters.

Modules 13

Where can these skills take me? **Into CO_2 storage projects in industry, research or public authorities.** The same subsurface skills are used in geothermal energy and underground energy storage.

Q Can I apply without a geology degree?
Yes. With a basic grounding in geoscience, after a short online interview.

Q Can I follow it online?
Partly. Courses may be held online; the field work in Italy and the thesis defence are in person.

Q When can I apply?
Until the end of January 2027. Email us now to join our list of applicants.

Q How much does it cost?
€2,200 tuition. Payment details follow your eligibility confirmation.

Apply	Zagreb	Rome + field trip	Thesis	Defence
until end Jan 2027	Mar–Apr 2027	May–Jul 2027	Sep–Nov 2027	Dec 2027

Who can I ask? Write to us; we're happy to help.

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