



# Geoscience for Energy Transition

## one-year II level Master course

For the next leaders of the transition to low carbon energies  
The Master focuses on sustainable and renewable energy, and on the environmental compatibility of energy production

The Department of Sciences of the University of Basilicata, Italy, in cooperation with Eni S.p.a., the Tempa Rossa Joint Venture including Mitsui E&P Italia B S.r.l., Shell Italia E&P S.p.a, and Total Energies EP Italia S.p.a., and ARPA Basilicata promotes the second edition of the one-year, II level master course in Geoscience for Energy Transition, GET.

The second edition of the GET Master course is designed for students willing to learn the most advanced technologies in the field of energy resources, and environmental compatibility of energy production. The GET Master course covers a wide range of subjects in the geosciences, and provides a first-hand perspective on the transition from fossil to renewable energy. The goal is to prepare young and motivated students for a future employment as experts in companies operating in the energy business and environmental monitoring.

The GET Master course is delivered both in English and Italian, and includes four teaching Units (TU), seminars, and Team Projects (TP). A 3 month-long internship takes place at the end of class activities. Lectures and seminars are conducted by a selected staff of academic researchers and professionals whose expertise covers the various fields related to the transition from fossil to sustainable energy.

The GET Master course starts in FALL 2023, and ends in FALL 2024.

Candidates must hold a second level degree in the 3+2 system (Italian Laurea Magistrale) or in the 4+2 system (Master level) in Geosciences, Geophysics, Natural Sciences, Civil Engineering, and Environmental Engineering.

Tuition fees are fixed at Euro 3.000. 6 full fee waivers covering the costs of the tuition fees are granted to the most meritorious applicants.

Application to the GET Master course opens in September 2023

For further information please visit the website  
[www.masterget.it](http://www.masterget.it)

please contact the Master coordinator  
**prof. Fabrizio Agosta**  
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### Teaching Units (TU) | Team Projects (TP)

#### TU1 Reservoir Geology

Petroleum systems, Hydrocarbon chemistry, Porous reservoirs, Fractured reservoirs, Geology of Italian plays.

#### TU2 Reservoir Properties

Seismic interpretation, 3D reservoir modelling, Petrophysics, Dynamic modelling.

#### TP1 Field Development

Simulation of energy production from a real case scenario.

#### TU3 Renewables

Solar energy, Wind energy, Geothermal energy, Critical metals for energy transition, CO2 storage in the underground.

#### TU4 Environmental Compatibility

Environmental hydrogeology, Subsidence processes and geofluid production, 3D Digital outcrop modelling, Anthropogenic geomorphology.

#### TP2 Environmental Monitoring

Sampling and laboratory analysis of environmental matrices.



Class activities will take place both in english and italian.