

INSPIRING GLOBAL CHANGE SINCE 1222

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SCHOOL OF ENGINEERING

# ENERGY ENGINEERING

The Master's degree provides key skills to fulfill management and R&D roles in the sustainable production, distribution and use of energy in its various forms, whilst dealing with environmental, economic and regulatory aspects. Professionals are also trained in renewable energy sources and main energy conversions, covering studies on cogeneration, combined and nuclear plants, energy in buildings, heating and refrigeration systems. The programme has been awarded the EUR-ACE label (European Network for the Accreditation of Engineering Education), proof of a high-quality Engineering degree programme in Europe and abroad.



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

# ENERGY ENGINEERING

**LEVEL** Master

**SCHOOL** Engineering

**DEPARTMENT** Industrial  
Engineering

**DURATION** 2 years (120 ECTS)

**START DATE** October

**LOCATION** Padua, Italy

**PROGRAMME COORDINATOR**  
Davide Del Col

## WEB

[www.unipd.it/en/energy-engineering](http://www.unipd.it/en/energy-engineering)

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## ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent) with proven skills in Mathematics, Physics, Chemistry, Thermodynamics, Heat, Electrical and Mechanical Engineering
- English language: B2 level (CEFR) or equivalent

## PROGRAMME STRUCTURE

Common course units: Applied Energy, Combustion, Energy Systems, Electric Power Systems, Energy Economics, Heat Transfer and ThermoFluid-Dynamics, Measurements and Instrumentation, Renewable Energy Technologies.

Optional course units: Cogeneration and Combined Plants, Green Power Conversion and Utilisation, Heating Ventilation Air Conditioning Systems, Advanced Control Systems, Nuclear Fission and Fusion Plants, Photovoltaic Science and Technology, Process Technologies for Carbon-neutral Fuels, Refrigeration and Heat Pump Technology, Wind and Hydraulic Turbines, Energy and Buildings, Design and Optimisation of Sustainable Energy Systems, Computational Thermo-fluid Dynamics, Energy Audit.

## TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,700 (3 instalments)

Scholarships and fee-waivers for international students available: [www.unipd.it/en/funding-and-fees](http://www.unipd.it/en/funding-and-fees)

## CAREER OPPORTUNITIES

Energy engineers work in the field of advanced design and integration of conventional and renewable energy systems, in companies producing electrical systems, mechanical, heating and cooling equipment, or dealing with energy production and distribution, transformation and utilisation, or in technical departments of public administrations.