Master of Science in
ENERGY SCIENCE AND TECHNOLOGY

2-year program - 120 ECTS

- Common core courses (24 ECTS)
  - Convex optimization
  - Electrochemical engineering
  - Energy conversion and renewable energy
  - Energy supply, economics and transition
  - Fundamentals and processes for photovoltaic devices
  - Hydraulic turbomachines
  - Thermal power cycles and heat pump systems

- Complement and optional core courses (20 ECTS)

- Orientation (21 ECTS)

- Master’s thesis (30 ECTS)

- Semester project (10 ECTS)

- More options or project (9 ECTS)

Students must choose 21 ECTS of optional courses in one of these three orientations:

A  Energy conversion devices
B  Energy systems
C  Energy management and sustainability

Entry requirements

Candidates should have a Bachelor’s degree from a reputable university and excellent academic performance. The strong interdisciplinary character of the Master’s degree in Energy Science and Technology is reflected in the fact that the program is open to a wide range of Bachelor’s degree holders in applied sciences and engineering, including but not limited to electrical, mechanical, environmental sciences and engineering.

School of Engineering
go.epfl.ch/master-energy-science-technology
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Industrial internship

The program includes a compulsory industrial internship with a minimal duration of 8 weeks.

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