Master of Science in
ENERGY MANAGEMENT AND SUSTAINABILITY

2-year program - 120 ECTS

Master's thesis
30 ECTS

Theoretical elective courses
34 ECTS

Projects and SHS
26 ECTS

Management of technology courses
30 ECTS

This program includes a minimum 8-week compulsory internship in industry.

Research
Research activities focus on the following areas:
• Structural wind engineering
• Energy
• Water resources
• Urban design and environment
• Transportation

Professional outlook
This new project-focused curriculum is built on scientific rigor and professional practice, to provide a unique, interdisciplinary training in energy management and sustainability. The new generation of problem solvers will be able to understand complex systems such as smart grids for electricity distribution, water dissemination systems, environmental services and electronic networks that control energy consumption. And ultimately, to be able to both maximize their efficient use and minimize their negative impact on society.

Curriculum
Strong emphasis will be placed on dealing with engineering tasks, taking into consideration important technical, economical, environmental, safety and social constraints. Students will also gain valuable skills in project management. Multidisciplinary projects are proposed at the beginning of the program, and a tutor is assigned for each project. Students will work in a team to address these projects. An industrial internship will provide practical experience in a professional setting. The elective subjects are to be chosen in the course catalogue of the EPFL School of Engineering and School of Architecture, Civil and Environmental Engineering.

Entry requirements
Candidates should hold a Bachelor's degree in Engineering or Applied Physics.

Career prospects
Graduates from the MES program form a new and unique generation of professionals who will be called upon to tackle critical issues in energy management and sustainability. They are distinguished by their technical and management knowledge and the skills required to deal with a wide range of issues at the interface between energy, technology, and business. At the beginning of their career, they can be hired by any company that deals with energy; in project management, R&D, innovation management, and project development. The first batch of graduates have been hired by companies such as ABB, BKW, public and non-governmental organizations, and consulting companies, and some have even launched their own start-up in the UAE.