



**MSC SUSTAINABLE
ENERGY FUTURES**
2 YEARS PROGRAM

STARTS: SEPTEMBER 2022
ECTS : 120
TEACHING LANGUAGE: ENGLISH
| STUDY MODE : FULL-TIME |



FOREWORD

PHILIPPE HAIK,
HEAD OF ECE SPECIALIZED PROGRAMS

The MSc programs of ECE, a French Graduate School of Engineering, are specialized training courses which ambition is to prepare our graduates to meet the challenges posed by the digital and environmental transitions. They implement a pedagogy of excellence which will allow to consolidate the scientific and technical fundamentals while developing the managerial skills required by any future decision maker.

Whether you are willing to learn and deepen your knowledge in the fields of computer science and digital technologies (Cybersecurity, Big Data, Artificial Intelligence, etc.), in the sectors of energy, environment, health, transportation, finance, or industry and services in the broadest sense, by combining managerial know-how and technical expertise, thanks to the diversity of MSc offered, ECE will support you in the development of your talents for challenging career paths rich in opportunities.

Resolutely professional, these graduate programs are open to students from various backgrounds in France and worldwide (universities, engineering schools, business schools) wishing to acquire a technical and business specialization in line with the needs of companies and changes in the job market.

Thanks to an innovative pedagogy which combines professional immersion, societal commitment, innovation and international dimension, you will be able to quickly access qualified and well-paid positions.

To better respond to the needs and developments of the market, our MSc programs, designed and run with our corporate partners, place students in a professional situation by confronting them with real business cases while offering them an extensive professional immersion (internships or work-study, depending on the program).

At ECE, innovation and practice, confidence and entrepreneurship come together to allow you to realize your professional project and to project yourself in future activities and sectors. Finally, because 'making sense' is essential, with our MSc programs, beyond an exciting and remunerative job, you will also find your way to contribute, at your level, to the evolution of society for the common good.

What is a MSc ?



An ECE MSc is a graduate program delivering a school diploma from ECE, a French graduate school of engineering.

This training, accessible after a validated first year of master diploma, is mainly sought after by any candidate wishing to take a specialized program combining sectorial knowledge, managerial know-how, and technical expertise in digital engineering.

We welcome English-speaking students from any country, to take this professional higher education program preparing for highly qualified jobs.

MSc SUSTAINABLE ENERGY FUTURES

This program is delivered in english



The decrease in fossil energy resources

(and the resulting sustained rise in their price), the considerable increase in energy demand, supply difficulties, the weight of the energy sector in GHG emissions and the fight against climate change (reaffirmed by the ratification of the Paris Agreements in 2015) require a rapid and in-depth transformation of energy production and consumption patterns.

To achieve this, the traditional players in the sector, as well as new players, must mobilize and adapt thus relying heavily on the recruitment of new managerial profiles.

The objective of the 'Sustainable Energy Futures' training course is to provide a response to the demands of the market by enabling the acquisition of solid knowledge and skills (704 hours of learning, 1 thesis, 5 to 9 months of internships in companies) throughout the Energy and Environment sector.

This program provides a holistic view of the Energy and Environment sectors by drawing on both science and technology, but also on the human and social sciences (political science, economics, etc.). Its main objective is to train executives capable of designing and implementing intelligent systems for managing energy infrastructures, controlling consumption and storing energy by using all the possibilities of 'digital technologies' in terms of control and command, sensor networks and information systems; it therefore enables them to understand the changes in the Energy and Environment sectors, to grasp the new associated challenges, to respond to and anticipate threats and to deploy appropriate solutions.



OBJECTIVES

The program we offer is designed to enable future graduates:

- To enrich their fundamental knowledge while developing their generalist and digital culture.
- To master:
 - all the scientific and technical aspects of the energy sector (production, transport, storage, distribution, uses, etc.),
 - the energy of buildings and housing, of towns and cities.
 - information and communication technology.
- To understand the impact of the sector on international relations and its implications in terms of risks and security.
- To understand the regulatory and energy regulation mechanisms and anticipate the main changes.
- To develop an overall vision of the energy sector:
 - the links between energy, environment, economy and society (sustainable development),
 - technical, socio-economic and political risks and opportunities associated with the energy sector.
- To identify the main issues, levers and constraints of energy transition policies.
- To anticipate the changes and innovations in the energy sector.
- To acquire the skills essential for energy managers: purchasing and logistics, regulatory and legal aspects, financial approaches, project management, negotiation, communication, innovation.



ZOOM ON

TARGETED PROFESSIONS

- Energy Efficiency & Sustainability Consultant
- Energy Transactions Manager
- Operations and Networks Manager (Smart Grid)
- Operation/Maintenance Manager for energy infrastructures (power plant, dispatching, etc.)
- Sustainable Energy Project Manager (Photovoltaic, solar thermal & thermodynamic, wind, hydraulic, tidal, geothermal, methanation, etc.)
- Energy Efficiency Project Manager
- Smart Building Project Manager
- Embedded Energy Expert
- Sustainable Development Engineer/ Environmental Engineer/QSE/CSR

1919-2022: OVER 100 YEARS OF HISTORY!

Private Higher Education Institution, recognized by the State and authorized by the Commission des Titres d'Ingénieurs (CTI) to deliver the ECE engineering degree. EUR ACE label. Label DD&RS (Sustainable Development and Social Responsibility). Member of the Conférence des Grandes Écoles, the CDEFI, the UGEI and Campus France.



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SECTION
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CONTACT US



Our teams are at your disposal to accompany you in your search for the ideal ideal training. Do not hesitate to contact us so that we can answer all your questions.



MEET US



Every month, events are organized (Open House, Orientation meetings, Campus visit, Preparation visit of the campus, preparation days for the AVENIR COMPETITION, ...).

APPLY
YOU CAN APPLY
DIRECTLY ON OUR WEBSITE



ECE IS A SCHOOL OF THE ENGINEERING SCIENCES DIVISION OF OMNES EDUCATION, A LEADING INSTITUTION IN FRENCH PRIVATE HIGHER EDUCATION.

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