PRACTICAL INFORMATION

LOCATION

Palaiseau, Paris
Ecole polytechnique, ENSTA ParisTech, ENSAM ParisTech, Agro ParisTech

CONTACT

Master Program Coordinator
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Responsible
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MES NOTES...

www.universite-paris-saclay.fr

PARCOURS: Renewable energy, science and technology (REST)

Focusing on science, this Master in energy engineering aims to give students real-world technical expertise in strategic renewable energy disciplines, as well as an in-depth understanding of the issues associated with renewable energies and their development, including the short and medium-term technical, technological, geopolitical and environmental challenges. The program's main objectives are to: prepare students for careers in renewable energy advanced research and management; train the researchers and engineers who will help to prepare and implement energy strategies and policies for leading manufacturers, innovative start-ups and public organizations.

PREREQUISITES

Students who have completed one year of postgraduate study (equivalent of French M1 level study) or completed a four year undergraduate degree in physics, mechanical science or electrical engineering (Bachelor of Science or Bachelor of Engineering). Ideal candidates will have completed 4-5 years of study after completing high-school (Baccalaureat)

Other partners:
- Chimie ParisTech,
- Mines ParisTech,
Internationally recognized partner schools and laboratories:

- The program gives students the opportunity to learn about some of the most important renewable energy issues from expert researchers.
- Strongly committed business partners: the research units of the businesses partnering the program make a considerable contribution, both in the classroom and in the field via student internships.
- An international outlook: the program is taught entirely in English, making it accessible to students from around the world.
- An innovative structure: students also benefit from cross-disciplinary courses and seminars on various technologies.
- The Renewable Energy Science & Technology Master’s program provides targeted training in specific renewable energy disciplines and a holistic understanding of the related issues.

PEDAGOGICAL OBJECTIVES

Most of the academic courses are taught in close collaboration with the Université Paris-Saclay Labs in the various renewable energy fields:

- Photovoltaics (Institut Photovoltaïque d’Île-de-France: IPVF located on the Ecole polytechnique campus)
- Energy Vectors and Storage
- Energy Distribution Networks
- Wind and Hydropower

PERSPECTIVES

- The program aims to provide students with state-of-the-art knowledge and expertise in some of the most important renewable energy disciplines.
- Graduates will enter the job market with the necessary skills to help leading manufacturers, innovative start-ups and public organizations define and implement their energy strategies and policies, worldwide.
- The program also prepares students for jobs in research or teaching.
- The wide array of businesses and laboratories involved in the program offers graduates extensive employment opportunities in the sector.

RESEARCH

LABORATORIES

- LPICM École polytechnique
- IRDEP (Chatou)
- LMD École polytechnique

SOCIO-ECONOMICAL PARTNERS

- Total
- EDF
- PSA Peugeot Citroën
- Saint-Gobain
- Schneider Electric
- Air Liquide
- Alstom
- Cogenpower
- GDF Suez