APPLICATIONS
- The selection is performed at the level of the first year of the master (M1) for candidates holding a bachelor degree. It should be noticed that the first year of the master is taught in French. Applications should be made online using website ecandidat.
- If you hold an equivalent foreign diploma, depending on your country native, different procedures have to be followed such as a request for validation of studies or an application on the CEF (center for studies in France).
- Capacity: 24

RECRUITMENT CALENDAR
- Opening: May 4, 2020 - June 12, 2020
- Publication of admissions: beginning of July 2020.
- Campus France: before 06/03/2020
- e-candidat: from 02/03 to 24/04/2020

INTERNATIONAL RELATIONSHIPS
- The University of Lille has a policy of supporting international access to its courses. That’s why it has introduced special procedures to make international students feel welcome and form collaborations.
  
  https://www.univ-lille.fr/home/international-student/

- Practical information for your stay at the University of Lille
  
  https://www.univ-lille.fr/home/international-student-tool-box/

FACULTY OF SCIENCE AND TECHNOLOGY
The faculty of science and technology is a training and research unit of the University of Lille.
It brings 9 training departments and 27 research structures in the following areas:
- Biology ; Chemistry ; Electronics, Electrical engineering, Automatic ; Computer Science ; Mathematics ; Mechanics ; Physics ; Earth Science ; Station Marine Winereux.

The faculty of science and technology of the University of Lille offers a multidisciplinary training offer quality, from Bachelor to PhD, through professional bachelors and master’s degrees. The faculty hosts every year on the campus more than 7 000 students in initial training.
The Master E2SD is a degree co-authorized by the University of Lille, Arts et Métiers ParisTech Lille Center, and Centrale of Lille. Moreover, the master E2SD offers a double degree with Harbin Institute of Technology (HIT-China) and Ghent University (Belgium).

It allows acquiring a specialized knowledge in electrical engineering applied to environmental problems. It therefore constitutes an effective preparation for PhD in the areas of power conversion, design of electromechanical actuators with high performance, sustainable transport, integration of renewable energy sources in the grid.

The aim of the Master « Electrical engineering for Sustainable Development » is to train students in advanced methods of design and control of electrical systems to increase the contribution of renewable energies in the electricity system and design of subsystems for renewable energy systems.

The doctoral pursuit rate is about 35% (average value since 2008), and increases to more than 50% for students in single registration (who follow only the master degree). Other students find work in industry.

Since this M2 is taught in English, more than 40% of the students enrolled are of foreign nationalities (China, Vietnam, Morocco, Russia, Iran, Argentina, Spain, Algeria,...). This share is also increasing following a better promotion of our training on specialized sites.

The employments concerned, after the PhD, are those relative to research in public and private industrial groups and High Education:
- Associate professor (Universities, Engineering Schools),
- Researcher in public laboratories (CNRS, IFSTTAR, etc...) or industrial laboratories (EDF, etc.),
- Frame / Project Manager in groups, SMEs / SMIs (Siemens, Alstom, Valeo, etc.) and public structures (Region).

The doctoral pursuit rate is about 35% (average value since 2008), and increases to more than 50% for students in single registration (who follow only the master degree). Other students find work in industry in France or in their home country.

The strengths of the M2 E2SD lie, on the one hand, in the international character of the training that allows a mix of students from different nationalities and therefore an openness to different cultures and ways of thinking and, on the other hand, in courses taught by active teacher-researchers, thus providing knowledge from the latest research.

Students also benefit from the environment of a recognized research laboratory as well as its network of national and international industrial and academic partners. Lastly, the high rates of professional integration and doctoral pursuit show that the E2SD master is well identified and appreciated by industry and provides good candidates for research.

At the end of the training, the students are able to apprehend a scientific problem of electrical engineering with a sustainable development dimension and are able to implement adequate tools to bring solutions to it, such as:
- Definition of advanced power electronic systems for sustainable applications and analysis of complex energy conversion system for control purpose.
- Use of skills for energy modelling and their application to the concept of eco-design.
- Analysis of electromechanical conversion at low-frequency and use of issues and approaches to achieve optimal design.
- Study of new energy storage systems in future transportation systems.
- Development of future traction systems using a systemic optimization and multi-physical modelling.
- Study of solutions involving the integration of renewable energies in the electricity system and design of subsystems for renewable energy systems.

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