



**L'ÉCOLE CENTRALE DE LILLE:**  
ONE OF FRANCE'S LEADING  
GRANDES ÉCOLES IN ENGINEERING

[www.ec-lille.fr](http://www.ec-lille.fr)



# L'ÉCOLE CENTRALE DE LILLE:

In the heart of the dynamic city of Lille with its population of almost two million, Ecole Centrale de Lille is one of France's leading *grandes écoles*. It is a founder member of the Groupe des Ecoles Centrales (Lille, Lyon, Marseilles, Nantes, Paris France and Beijing). Each year Ecole Centrale de Lille trains at least 280 high-level engineers.

Educational projects, professional accomplishment and personal development are the keywords for the general multi-disciplinary engineering curriculum offered by the Ecole Centrale de Lille. The Ecole Centrale has the capacity to adapt this curriculum to each student's educational requirements and wishes.

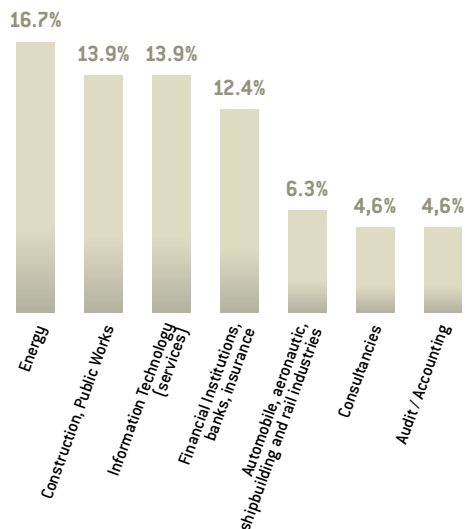
Its mission is to "train engineers who will become tomorrow's decision makers, ready to take on the responsibilities expected of them"



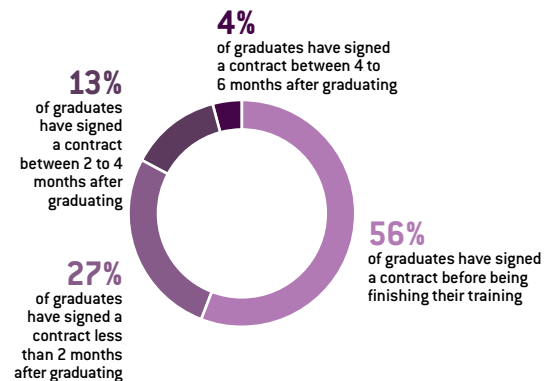
**Étienne Craye**  
President/Director  
of the Ecole Centrale de Lille



First Job - Sectors of Activity:



First Job - Lead Times:



# ONE OF FRANCE'S LEADING GRANDES ECOLES IN ENGINEERING



## LILLE: A CITY IN THE VERY HEART OF EUROPE

The city of Lille is a Euro-Metropolis, a friendly city, **close to major European capitals** such as **Paris** (60 minutes by high speed train), **Brussels** (38 minutes) and **London** (80 minutes). As well as being the capital of the Nord-Pas de Calais region, Lille is also home to the third largest French university center with no fewer than **100,000 students** attending the **4 universities, 13 engineering schools and grandes écoles** in the city.

The region's forward-looking policies have also enabled it to attract the second-highest number of corporate headquarters (15 international company headquarters) in France.

## THE ECOLE CENTRALE DE LILLE: A VERY PLEASANT PLACE TO LIVE

As well as being a lively and attractive city, Lille, and in particular the Cité Scientifique Campus, offers students a very pleasant living environment. The Ecole Centrale de Lille is close to the city center (only 15 minutes by metro), and provides its students with agreeable living accommodation... There are halls of residence with **581 rooms for students** on campus nearby. Priority for places is reserved for the best foreign students coming to study at Centrale Lille. The accommodation is made up of well-equipped furnished single or double rooms (complete with fibre optics, common rooms with TVs...) The Cité Scientifique campus also has **a library, three restaurants and a wide variety of sporting facilities**.

## NUMEROUS TRAVEL OPTIONS

The city of Lille offers numerous travel possibilities on account of its proximity to **motorways, stations and airports** (Lesquin, Charles De Gaulle, Charleroi...). The campus also has several **public transport services** (bus, Metro, tramway) which enable students to reach the centre of Lille.



# TRAINING AT THE ECOLE CENTRALE:

The Ecole Centrale de Lille welcomes a considerable number of students from all over the world. In order to help each international student to take full advantage of their time spent in the school, the Ecole Centrale de Lille makes great efforts to provide material, financial and moral support at every level.

Students of at least 20 different nationalities from 15 countries live side-by-side on campus at the Cité Scientifique. 20% of the students at the Ecole Centrale de Lille come from the top international universities.

## JOINT DEGREES AWARDED BY THE ECOLE CENTRALE DE LILLE

The Ecole Centrale de Lille gives foreign students the possibility of obtaining a degree awarded jointly by the Ecole Centrale de Lille and their home university. Based on a common core programme (2 years), the aim of the first and second year studies is to acquire the foundations of a high-level, general engineering training.

# EDUCATIONAL EXCELLENCE

Ecole Centrale de Lille award the degree of "Ingénieur de l'Ecole Centrale de Lille" / Master

## THE COMMON CORE PROGRAMME CONSISTS OF:

- **The compulsory common core programme (1 040 hours) which covers:**
  - **Physical Science** for Engineers with four teaching departments: Mathematics - IT, Electronics, Electrical Engineering and Automotons, Physics and Chemistry and Business Science with an "Entreprise et Société" Department
  - **Modern Languages**
- **A more flexible core of individually chosen subjects** in addition to the common core. The students chooses their fields of study (1 to 7 possible options from among 70 courses: Mathematics and Cryptography, Solar Photovoltaics, Audible Acoustics and Vibrations, etc.) and elective transversal courses (1 to 3 possible options from among 10 courses: Architectural Design and Sustainable Construction, Eco-Design, Bioengineering...). Students can also follow a research project within the framework of their elective courses at the end of the 2<sup>nd</sup> year.
- **The Team Project** is the central element of the programme. Over a two-year period, engineering students have the target of solving a problem arising in a company, or contributing to its solution. The 300-hour project is set up and developed within the company's technical, socio-economic and human context. Each team, made up of 5 to 7 students, is supervised by lecturers. The module provides a service equivalent to that of an Engineering and Design Department.
- **Work Placements** are an integral part of the course
  - **1<sup>st</sup> Year:** learning how a company works (4 to 5 weeks)
  - **2<sup>nd</sup> Year:** assistant engineer work placement (3 months)
- **Students** can also come to Centrale as a part of their Semester 8 studies (2<sup>nd</sup> semester of the 2<sup>nd</sup> year)



## HOW TO ENROL FOR A JOINTLY-AWARDED DEGREE

Individual applications are studied for granting places on the first and second year courses, followed by an interview carried out by the Groupe des Ecoles Centrales Selection Committee. This academic selection process takes into consideration the professional project, linguistic abilities as well as an evaluation of the potential of each candidate.



# THE THIRD YEAR

The aim of the third year at the Ecole Centrale de Lille is study in greater depth certain aspects of the basic engineering techniques and skills. This year enables students to consolidate their knowledge and gain a better understanding of the skills required for a career in engineering. It is divided into two parts - i) a programme of advanced scientific and technological options (435 hours) and ii) a professionally-orientated part intended to prepare the students for the various careers open to engineers (160 hours).

Third-year students choose one option from among the **11 possibilities for advanced study** and one option from the **7 professionally-orientated fields of study**.

#### 11 options for advanced study:

- Advanced Mechanics
- Civil Engineering
- Matter, Energy and Biosciences
- Waves, Nanoelectronics and Telecommunications
- Electrical Energy and Sustainable Development
- Information and decisional system
- Production Systems Engineering
- Information Systems Engineering
- Computer Engineering
- Administrative Data Processing
- Organisational Engineering
- Services and Socio-economic Systems Services
- Transport Systems and Logistics

#### 7 professionally-orientated fields of study:

- Entrepreneurial Studies
- Management/Audit (consulting)
- Urban Systems, Construction, Environment
- Product and Innovative Systems Design
- Supply Chain Management
- e-commerce / e-business
- Research

#### THE THIRD YEAR PROGRAMME ALSO INCLUDES:

- **IMPACT** (Initiative Mission Project Action) - an individual project chosen in relation to the student's advanced option or the professional field of study which enables the student to define his or her professional project more clearly.
- **Work Placements** of 3 to 6 months involving the students in a real engineering situation.

## APPLICATION FOR THIRD YEAR STUDIES AT THE ECOLE CENTRALE DE LILLE

To enter the 3<sup>rd</sup> year (Erasmus), students submit an application. Selection of students is undertaken by the Department of International Relations in consultation with the Department of Studies.



# RESEARCH

## RESEARCH MASTERS

The Ecole Centrale de Lille is authorised to award Research Masters in **9 specialities**. Research programmes are open to all candidates who wish to prepare a research-orientated National Masters Degree. These offer specialisations in the following fields:

- Mechanics
- Civil Engineering
- Electrical Energy and Sustainable Development
- Automotons, Data Processing Engineering and Image
- Information Systems and Design Engineering
- Catalysis and Processes
- Turbulence
- Health provision
- Micro- and nanotechnologies

## DOCTORAL DEGREES

The Ecole Centrale de Lille is authorised to award doctoral degrees in **6 specialities**:

- Mechanical Engineering
- Civil Engineering
- Electrical Engineering
- Automatic control, computers, Data Processing Engineering and Image
- Electronic Engineering
- Industrial and Systems Engineering



## HOW TO APPLY TO STUDY FOR A MASTERS RESEARCH DEGREE AT THE ECOLE CENTRALE DE LILLE

The candidate submits an application which is passed on to the Ecole Centrale de Lille by the partner university, or submits an initial application. The selection process is then organised by the Research Department, the Department of International Relations Department, the Department of Studies and the Head of Sciences.

## HOW TO APPLY TO STUDY FOR A DOCTORAL DEGREE AT THE ECOLE CENTRALE DE LILLE

Students apply to study for a doctoral degree by submitting an application form. The selection process is carried out by the relevant Research Department.

# COMING TO STUDY AT THE ECOLE CENTRALE DE LILLE - PRACTICAL ADVICE AND AID

## PROCEDURE:

### Coming to France

Foreign students wishing to come and study at the Ecole Centrale de Lille need to obtain several documents and there are various administrative formalities.

**Visa:** A letter of acceptance from Centrale Lille is sent to the candidate. This document enables the candidate to apply for a visa. There are also steps to be taken before coming to study in France. Students from outside the European Community (EC) can apply for a visa from the Consulate or Embassy via the CEF (Centre pour les Etudes en France - Center for Studies in France), by submitting an application form and participating in an interview in French.

### Funding your Studies

There are many possibilities available for the best foreign students who wish to continue their studies in France at the Ecole Centrale de Lille.

- The “Bourse d'excellence EIFFEL” (Scholarship from the Ministry of Foreign Affairs). This scholarship can be awarded to students studying for a jointly-awarded degree as well as those studying for a Doctoral Degree upon application submitted by the host institution.
- The ERASMUS Scholarship is awarded by the European students' home country.
- The “Bourses d'Ambassades” (Embassy Scholarships) are mainly awarded to students from Eastern Europe. France helps students submit their application to the French Embassy in their home country.
- The “Bourses Blériot de solidarités entrantes” (participant solidarity scholarships) are awarded to students from certain countries. This is a scholarship awarded by the Nord Pas de Calais region to students from its target countries.
- The CSC Scholarship (China) is awarded to Chinese students.
- The Brafitec Scholarship. This grant is awarded to Brazilian students coming to France. It is awarded by the student's home university.
- The “Bourse de la Fondation Centrale Initiatives” is a scholarship awarded to foreign students upon application.



### Accommodation: The “Léonard de Vinci” Residence

Located close to the Ecole Centrale de Lille on the Cité Scientifique Campus, the student residence “Léonard de Vinci” provides students with all the comfort they need to study. Priority is given to foreign students for accommodation in this residence of 581 rooms (single or double) which boasts a wide range of facilities (furniture, optic fibre, Internet, TV and common room, sitting rooms...).

The Cité Scientifique Campus also has a library, three university restaurants, various sports facilities, etc. The top international students are received into the top accommodation.

### Reception and Arrival at the Ecole Centrale de Lille

Each foreign student joining the Ecole Centrale de Lille receives a personal welcome to France.

- From the EGIDE, in partnership with the BFI.
- At the Centre de Français CAVILMAN in Vichy, in partnership with the BFI, where students take a language course (compulsory if the student is on an EIFFEL scholarship - this is funded by the EGIDE).
- By the BFI (Bureau de la Formation Internationale), Club TIME, BDE (Bureau des élèves/students association).

A pre-entrance week is set up to deal with all the formalities - “carte de séjour” (resident's permit), APL (housing benefit), bank accounts... This week is then followed by the official entrance week during which the student is welcomed by a French and International mentor. Students are then supervised by the DRI (Department of International Relations), the BFI and tutors from their geographical areas.

Students are supervised by the BFI for their entire two-year stay in France which ends with the award of their degree and, their return to their home country.

“As a Brazilian Industrial Engineering student, my sphere of activity was mainly limited to production management and the financial side of business. During my studies at Centrale I was able to acquire knowledge in several fields of engineering such as chemical, mechanical and electronic engineering, for example. My general studies at the Ecole Centrale de Lille have made all the difference. I have now graduated and I work for Technip Abu Dhabi in the United Arab Emirates as a systems and cost control engineer.”

Amanda Tavares  
Joint degree 2005-2007

École Centrale de Lille  
Cité scientifique - BP 48  
59651 Villeneuve d'Ascq Cedex  
Tél. : +33 (0)3 20 33 53 53  
Mél : bfi@ec-lille.fr

[www.ec-lille.fr](http://www.ec-lille.fr)

