TRAINING
GENERAL ENGINEERS
At the forefront of innovation
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### JOIN ÉCOLE CENTRALE DE LYON AND OPEN YOUR MIND

And also:

- **✔ Benefit from an options-based course** to suit all your projects.
- **✔ Discover research** through constant contact with the CNRS* laboratories on the campus.
- **✔ Work with internationally renowned companies.**
- **✔ Acquire a good command** of a foreign language and study in prestigious universities abroad.
- **✔ Get involved in an exciting range of extra-curricular activities.**
- **✔ Benefit from partnerships and dual degrees** set up by the School: EMLYON, Architecture, etc.
- **✔ Play a sport** as part of a winning team.
- **✔ Enjoy living** in a resolutely European city between the mountains and the sea.

* CNRS: The Centre National de la Recherche Scientifique (National Center for Scientific Research) is a public organization under the responsibility of the French Ministry of Higher Education and Research.
Frank Debouck, Director of École Centrale de Lyon

École Centrale de Lyon’s mission is to train general engineers and doctors with a global outlook. It combines an approach to humanities and social sciences with a thorough grounding in scientific and technical skills to help its students to quickly get a grasp of their future managerial and/or international functions.

Marie-Annick Galland, Director of Studies at École Centrale de Lyon

École Centrale de Lyon provides excellent scientific and technical training in a faculty composed of teachers, lecturers and outside contributors of national and international standing, in tune with the latest industrial and scientific innovations. Find out about École Centrale de Lyon’s engineer training and the other different courses offered on the Écully campus in this brochure.

In a changing world, École Centrale de Lyon’s continually renewed partnerships mean that the engineering training it provides is constantly aligned with the expectations of companies so that they can respond to tomorrow’s scientific and societal challenges.
In addition to the 12 taught modules in engineering sciences, economics and humanities of the core program there are:

- **One modern language taught module**
- **One professional taught module**

This very broad base allows students to acquire the open-mindedness, knowledge and skills that are characteristic of engineers from École Centrale de Lyon. It is also possible to study for a dual engineer/architect degree.

The learning objectives for each TM come are expressed in terms of:

- Acquisition of academic knowledge
- Acquisition of knowledge about the context
- Acquisition of engineering skills (complex problems, multidisciplinary issues, etc.)

25% of teaching in these TMs is «self study»: compulsory and tested group or individual work, where the student’s initiative is a key factor.

Interdisciplinary, open-mindedness, consistency, novelty and English are the keywords for this semester.

* The semesters are named according to the LMD system to facilitate international communication.
Semester S5 corresponds to the 1st semester after the baccalaureate, and the core program is therefore run during semesters S5, S6 and S7.

** TM: taught module

*** ES/ESSH: Engineering sciences - Economics, social sciences and humanities.

**** These course options can be undertaken in France or abroad.
AN OPTIONS-BASED TRAINING PROGRAM THAT ENCOURAGES INDIVIDUAL DEVELOPMENT

At École Centrale de Lyon, students follow a core program for three semesters, followed by three semesters of optional subjects.

YEAR 03

Professional and sectoral practice at École Centrale de Lyon

The student chooses between 7 options (sectors) and 6 professions before doing his end-of-course placement, a 3 to 6 month mission in a company or in a laboratory. He can do his third year in another school belonging to the Écoles Centrales Group to take up an option or profession in other themes.

A career development contract

Since the start of the academic year 2013, this new way of obtaining an engineering degree from École Centrale de Lyon is open to engineering students at the end of their second year.

International orientation

The semester-based structure of the course facilitates exchanges with the school’s historic partners (130 exchanges in over 40 countries). Each year, around 60 students also choose to take part in an academic exchange. This is mainly organized through the TIME network, and involves two years of study at École Centrale de Lyon, followed by two years at the partner university.

Mobility in France

The student may also do his 3rd year in another French institution (these courses do not award a dual degree).

Priority to research

In the third year, engineering students have the option to gain in-depth research skills by following one of the school’s fifteen or so research Master’s courses in addition to their existing course. Engineering graduates also have the option of undertaking a three-year program leading to a PhD, in one of the school’s laboratories.

A dual engineer / manager degree

In 4 years, in partnership with EMLYON Business School.

To gain their degree, students must:

- Spend at least four semesters under the school’s supervision,
- Demonstrate proven work experience of at least six months,
- Demonstrate proven mobility for a minimum of 3 months abroad.

The course is divided into semesters, making exchanges easier:

The first three semesters consist of 12 taught modules, and provide the range of key skills and knowledge that an engineer will need. The following 3, referred to as «optional courses», are designed to help the engineering students to pursue their studies in 4 areas:

- Professional and sectoral practice
- International focus
- Dual training
- Research

As well as this training, students gain first-hand, in-depth workplace experience by attending conferences, visiting factories, and taking part in six months of work experience.

Each engineering student is fully involved in his own training. Students build their course by choosing from the many opportunities available.

Throughout their course, they can adjust the pace of their studies, go further into some areas, and take a gap year to gradually build up their project. Their choice provides a measure of commitment, making them accountable and helping them to take full advantage of their training.
In the «options-based» part of the course curriculum, École Centrale de Lyon engineers must choose a profession and an option corresponding to their professional project.

Each profession is a function that can be occupied by an engineer early in his career. These courses involve a range of different contributors from the world of business and provide students with practical activities that represent the type of work in their chosen profession.

The options represent sectors in which École Centrale de Lyon engineers will be working. They rely on in-house expertise and especially on that developed in research laboratories.

Each option displays general-purpose characteristics in its own theme and is based on disciplinary and sectoral modules.

Work in project mode, workshops and work in partners companies representative of the sector complete the training.

**AERONAUTICS**
This option gives students the skills useful in designing a plane.
From a simplified design project, different courses are offered with a focus on a part (engine, wing, fuselage, etc.) or a problem (propulsion, acoustics, materials, controls, etc.) to move towards a concept of green aircraft that consume less, pollute less and make less noise.

**OPPORTUNITIES**
- Aeronautics, aerospace, mechanical construction and parts suppliers.
- Safran, Dassault, Airbus, Thales, CNES...

**ENERGY**
The environmental challenges we face today are significantly altering the industrial problems encountered in the energy sector. In this option, students acquire as broad an overview as possible of the energy problem, both in the long term and in relation to its current implications for society and industry.
3 sectors: On-board energy / Infrastructure energy / Sustainable buildings

**OPPORTUNITIES**
- Energy industries (technical, commercial, trading), transportation industries and high consumption sectors, local authorities, consulting.
- EDF, RTE, Total, Areva, Powernext, CEA, IFP, CNR, ADEME, Groupe Suez...

**MATHEMATICS AND DECISION-MAKING**
In all sectors, engineers and managers are faced with the question of decision-making in solving scientific and technical problems, in optimizing industrial processes or in choosing strategic management approaches. This option trains engineers capable of managing a business, in finance, ecology, biology and physics.
2 sectors: Mathematics and risk engineering / Business decision-making support.

**OPPORTUNITIES**
- Industrial risks, finance, banking, insurance, management in industry, management in the production of goods and services and in distribution, consulting, research and development.
- Murex, General Electric Corporate, Accenture...
INNOVATION RESEARCH AND DEVELOPMENT ENGINEER
Helping to keep businesses competitive through innovation.
Research and development engineers are both versatile and specialists in their field. They are responsible for research projects and knowledge transfer, from preliminary study to industrial application phases.

INDUSTRIAL PROCESS MANAGEMENT ENGINEER
Managing, improving and controlling goods and service production systems.
His aim is to promote customer satisfaction by successful management of quality, costs and deadlines, continuously improving company performance. The teaching is based on the INEXO training factory.

SUPPLY CHAIN ENGINEER
Planning and managing physical and information flows.
He has a cross-functional overview of the logistics chain, which requires understanding of the different functions in the company. The aim is to supply customers with the right product, at the right time, in the right location and at the right cost.

MANAGEMENT OF INDUSTRIAL AND ENVIRONMENTAL RISKS ENGINEER
The engineer is responsible for identifying the diverse hazards that contribute to industrial and environmental risk, and to estimate their possible impact on man and the environment, using advanced modelling tools. In particular, the engineer must be able to:
• construct models to quantify the probability of different possible outcomes,
• propose economic tools to quantify the impact of those outcomes,
• identify the relevant legislation, and propose corresponding solutions to eliminate or mitigate the identified risks.

ECO-DESIGN AND INNOVATION ENGINEER
Designing innovative products, and introducing concepts of recycling.
He is aware of the major societal challenges and defines a strategy to ensure the success of new products through management of the product-process link.

BUSINESS DEVELOPMENT ENGINEER
Running a business, a business unit or department within a company.
He provides full support for a company project at strategic level: analyzing feasibility, designing the ecosystem and taking commercial, technical and financial responsibility.

CONSULTANT ENGINEER
Helping to solve problems in business.
Consultant engineers may work on long or short-term jobs, of a technical and/or managerial nature. They may support customers, take on the role of architect or project manager, provide diagnostic, advisory or auditing services, or even implement and execute a set of solutions.

BIO-ENGINEERING AND NANOTECHNOLOGY
This option aims to provide interdisciplinary training in biology, chemistry and physics for engineering students to help them understand the recent high-tech applications including micro and optoelectronics, nanotechnology and biology. The course is mainly organized in the form of workshops.

OPPORTUNITIES
Microelectronics, materials, photonics, biomedical-health, food.
STMicroelectronics, Atmel, CEA, BioMérieux, Varioptic, General Electric, SOITEC, Thalès, L’Oréal, Philips Research, Sanofi-Pasteur...

IT AND COMMUNICATION
This option trains engineers who are able to specify, design and supervise the implementation of IT applications in the context of systems whose complexity is continuously growing. Their general engineering skills are complemented by knowledge, concepts and methods in information systems architecture and urbanization, and looks at multimedia issues in the context of the convergence of IT and telecommunications.

OPPORTUNITIES
IT services, consulting, computers, software editors, electronic commerce, banks, telecommunications, media, transport.
Unilog, Atos, Cap Gemini, KPMG, HP, IBM, SAP, Amazon, Ebay, Bouygues, TF1, Air France, Renault Trucks, SNCF...

TRANSPORT AND TRAFFIC
The Transport and Traffic option is an open course on issues of land transport, oriented towards vehicles and mobility. It aims to make students into architects responsible for cross-sector projects in industrial structures in this sector.

3 sectors: Traffic and environment / Vehicle technologies / Sustainable and intelligent vehicles

OPPORTUNITIES
Automotive, rail, transport safety, mechatronics
Renault, PSA, Alstom, SNCF, Michelin, INRETS...

CIVIL ENGINEERING AND ENVIRONMENT
This option trains engineers focused on development, environment or urban engineering professions. The focus is on the multiple interactions between engineering structures and the environment, problems of controlling hazards and the importance of taking into account the relevance of scientific and technical choices while integrating sustainable development issues.

3 sectors: Construction / Sustainable buildings / Environment

OPPORTUNITIES
Engineering offices, building or public works companies, development companies, local authority engineering departments...
Vinci, Bouygues, Vivendi, Total, Veritas, Socotec...
THE MODERN LANGUAGES TAUGHT MODULE

Engineering students at École Centrale de Lyon have a choice of 10 modern languages: German, English, Arabic, Chinese, French as a foreign language, Italian, Portuguese, Russian, Japanese, Spanish.

All students must study at least one foreign language from those proposed during their course, and may potentially choose 2 or 3.

Every student leaving the School must have a minimum level of English (at least 550 points on the ITP (79 on the TOEFL IBT), 750 points on the TOEIC or 6.5 points on the IELTS).

Non-French speaking students doing a dual degree or students who enjoy special conditions for linguistic reasons must obtain the DELF (French language studies diploma) level B2.

TAUGHT MODULES IN ENGINEERING SCIENCE, ECONOMICS AND HUMANITIES

- Electrical energy and systems control
- Fluid and energy
- Mechanical engineering
- Information technology
- Materials engineering
- Mathematics
- Solid and structural mechanics
- Physics and chemistry of materials
- Economics and management
- Information sciences and technologies
- In-depth TM
- Human and social sciences

THE PROFESSIONAL TAUGHT MODULE (UE PRO)

The UE PRO allows students to discover the engineering profession through lectures, visits to plants, interviews, projects and internships in industry, and helps them make use of all this information in defining their professional project.

All students must do a 4 week work experience placement after the first year and a 3 month work experience placement as a first introduction to engineering work.

Similarly, the acquisition of certain skills requires students to learn by doing. Students work in groups on projects throughout the core program.

Physical education and sports, one of the aims of which is to «act together» to learn more about ones »potential», is a compulsory part of the integrated UE PRO course.
GET MORE OUT OF YOUR TRAINING

INTERNATIONAL DUAL TRAINING COURSE

For more than 45 years, École Centrale de Lyon has been implementing a major international policy that contributes to the personal enrichment of its students and also enhances their training and research. It also supports companies that employ our students as part of a globalization process.

It has signed 61 dual degree agreements with the world’s most prestigious universities.

Since the start of the 2009 academic year, French students must complete a stay abroad at a university or in a company, lasting a minimum of three months to graduate from the École Centrale de Lyon.

DUAL ENGINEER-ARCHITECT DEGREE

In 2002, École Centrale de Lyon signed a dual degree agreement with the Lyon School of Architecture (École Nationale Supérieure d’Architecture de Lyon - ENSAL).

This three-year exchange enables engineering students, throughout their initial course at École Centrale de Lyon, to prepare the entrance exam for ENSAL, to obtain their degree in architecture after two further years of study.

The exchange also allows architecture students to prepare to enter École Centrale de Lyon, alongside their initial course in order to graduate as engineers.

DUAL ENGINEER-MANAGER DEGREE

In 2013, École Centrale de Lyon and EMLYON Business School, as part of a Science & Business Alliance, signed a dual degree agreement for engineering students from École Centrale de Lyon to obtain diplomas from both schools in 4 years.

This agreement follows an initial exchange with EMLYON Business School, to allow engineering students to do their 3rd year at EMLYON.

ENTREPRENEUR CLASS

«Innovating in order to act», is what École Centrale de Lyon proposes in its multidisciplinary entrepreneurship course: Classe Entrepreneuriale Innovation Design.

Within this personalized course, 2nd and 3rd year engineering students can put their entrepreneurial spirit into action to imagine and create the most innovative technological products.

Training is based on «learning by doing» and takes place in project teams within different structures of the school, including the Learning Lab that provides a unique area for technological experimentation and creation.

TO ENABLE ENGINEERING STUDENTS TO CREATE THEIR OWN CUSTOM-BUILT COURSE, ÉCOLE CENTRALE DE LYON HAS ESTABLISHED A NUMBER OF PARTNERSHIPS IN FRANCE AND ABROAD, ALLOWING THEM TO STUDY FOR AT LEAST ONE YEAR AT ANOTHER UNIVERSITY.
EACH YEAR, ÉCOLE CENTRALE DE LYON WELCOMES MANY STUDENTS FROM ABROAD TO ITS CAMPUS. FOR THE 2012-2013 ACADEMIC YEAR, MORE THAN 300 INTERNATIONAL STUDENTS ENROLLED IN ENGINEERING COURSES (VIA A COMPETITIVE EXAM, OR AS PART OF A DUAL DEGREE OR EXCHANGE YEAR), AT MASTER AND DOCTORATE LEVEL. OVER 75 OF THE MOST PRESTIGIOUS UNIVERSITIES ON FIVE CONTINENTS ARE ACTIVE INTERNATIONAL PARTNERS OF THE SCHOOL.

The Rhône-Alpes region actively supports École Centrale de Lyon’s international policy.

DUAL DEGREES
As part of agreements signed between École Centrale de Lyon and foreign partner institutions, places are offered each year to outstanding students from partner universities for entry into the first year of engineering studies in order to obtain a dual degree.

The reference for this top-level course is the European TIME network. Extending this exchange policy to China and Brazil was a major step in the development of this offer. It now extends to other countries such as Japan, Russia and, more recently, Australia.

After spending at least two years in their home university, students attend the first two years of École Centrale de Lyon’s engineering course to acquire all the knowledge and skills that the engineer needs.

They then return to complete their training courses to become graduates of both institutions.

To participate in this demanding dual degree program, students must have been selected by their home university and demonstrate a good level of French.

KEY FIGURES

30% of teaching and research staff are of a nationality other than French

130 international framework agreements

61 dual degree agreements with foreign universities

40+ 40 different nationalities on the campus

The Mediterranean Network of Engineering Schools (Réseau Méditerranéen des Écoles d’Ingénieurs - RMEI)

China The « 5+4 » network

Europe TIME (Top Industrial Managers for Europe)

Brazil The « 5+6 » network
BENEFIT FROM OUR QUALITY PARTNERSHIPS

RECRUITMENT PARTNERSHIP
Throughout their course, students prepare to enter the workforce. Companies are a very active feature of their course, by accepting them on internships and also by coming into the campus and taking part in targeted actions which also promote their image as employer.

TRAINING PARTNERSHIP
In an increasingly competitive world, the partnership between school and companies is a critical success factor. The involvement of companies is crucial to the quality and development of the School’s educational projects. École Centrale de Lyon provides companies with the opportunity either to intervene directly with their students or to submit projects to groups of students.

RESEARCH PARTNERSHIP
Enjoy privileged access to laboratories and to their work.

Our vocation as a general engineering school requires high-level research in many scientific fields: for this purpose, École Centrale de Lyon has developed a coherent and comprehensive set of engineering sciences. It is organized in such a way as to break down the barriers between disciplines and facilitate interdisciplinary approaches.

Powerful laboratories and international recognition.
École Centrale de Lyon’s six laboratories are associated with the CNRS and combine both fundamental and applied research. This guarantees that they are recognized at the highest scientific level in France and abroad and ensures that their activities are firmly rooted in the reality of companies’ needs.

KEY FIGURES

INDUSTRIAL PARTNERSHIPS RELATED TO TRAINING

- 50+ industrial application projects
- 50+ stands at the SME forum
- 100+ stands at the Perspectives forum
- 45+ contributions from companies in the form of conferences
- 2 industrial chairs

INDUSTRIAL PARTNERSHIPS RELATED TO RESEARCH

Portfolio of 103 patents
8 new patents applied for in 2012
59 patents applied for
7 companies created from our laboratories
130 promotional projects under examination
IN THE FOREFRONT OF RESEARCH

IN A CONTEXT MARKED BY INCREASED INTERNATIONAL COMPETITION AND NEW ECONOMIC AND SOCIETAL EXPECTATIONS, ÉCOLE CENTRALE DE LYON IMPLEMENTS A DYNAMIC SCIENCE POLICY STRUCTURED AROUND SIX RECOGNIZED LABORATORIES AND FIVE MAJOR PRIORITIES: NANOTECHNOLOGIES AND NANOMATERIALS, TRANSPORT, ENERGY, ENVIRONMENT AND BIOENGINEERING.

FUTURE INVESTMENTS
École Centrale de Lyon’s response to calls for projects for top-class initiatives is reflected in the participation of its laboratories in different projects:
EQUIPEX - EQUIPMENT OF EXCELLENCE
IVTV - Ingénierie et Vieillissement des Tissus Vivants (Engineering and aging of living tissues)
PHARE - Rotating machinery platform for the control of environmental risks
MANUTECH - Technology factory
LABEX - LABORATORY OF EXCELLENCE
École Centrale de Lyon is an integral part of five LabExs:
CeLyA - Centre Lyonnais d’Acoustique (Lyon acoustic center)
IMU - Intelligences des Mondes Urbains (Intelligence of urban worlds)
IMUST - Institut des Sciences et Technologies Multi-échelles (Institute of multiscale sciences and technologies)
MILYON - Communauté de Mathématiques et Informatique fondamentale de Lyon (Lyon Community of Mathematics and fundamental information technology)
MANUTECH - SISE - Science et Ingénierie des Surfaces et interfaces (Surface and interface science and engineering)

INTERNATIONAL RESEARCH - LIA AND UMI
École Centrale de Lyon also has an international research policy structured by a limited number of key actions, featuring the creation of associated international laboratories (Laboratoires Internationaux Associés - LIA) or mixed international units (Unités Mixtes Internationales - UMI), certified by the CNRS.

The aim is to create a joint research program and generate interest from industry in international collaborations. And École Centrale de Lyon, who already has research funded by Japanese manufacturers such as IHI, intends to be at the center of a web woven on an international scale from academic and industrial partnerships.

École Centrale de Lyon supervises five LIAs and one UMI:
LIA CPN - Center for Photonics and Nanostructures - Korea
LIA ElyT lab - Engineering and science Lyon Tohoku laboratory - Japan
LIA 2MCIS - Modeling materials, mechanics and systems - China
LIA Maxwell - Brazil
UMI LN2 - Nanosystems and nanotechnology Laboratory - Canada

DOCTORAL SCHOOLS
Doctoral schools organize the training of doctors and prepare them to access the labor market. They provide PhD students with a multidisciplinary culture as part of a coherent scientific project. They contribute to the international visibility of doctoral training from institutions and help to structure sites.

They coordinate the recruitment of new PhD students, the renewal of enrollments and authorizations for thesis oral examinations.

Electronics, Electrical Engineering and Automation Doctoral School EEA - ED 160
Lyon Materials Doctoral School EDML - ED 34
Lyon IT and Mathematics Doctoral School INFOMATHS - ED 512
Mechanics, Energy, Civil Engineering, Acoustics Doctoral School MEGA - ED 162
Research is the main source of innovation. Research enhancement is one of the priority tasks of École Centrale de Lyon. To do this, the School has created or helped to create several structures, including:

- An internal department - Service Partenariat Recherche et Valorisation (Research and enhancement partnership department)
- A private-law subsidiary - Centrale Innovation
- A science center - Centre Scientifique Auguste Moiroux
- An institute - Institut Carnot-Ingénierie@Lyon
- A business incubator - Créalyss
- A shared technology transfer scheme - Lyon Sciences Transfert

**RESEARCH ENHANCEMENT**

**KEY FIGURES**

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**LABORATORIES**

**LTDS**

LTDS - Laboratoire de Tribologie et Dynamique des Systèmes (Tribology and system dynamics laboratory)

LTDS - UMR CNRS 5513

LTDS is a multidisciplinary laboratory that builds, experiments and models knowledge and know-how mainly in the fields of solids, chemistry and physics of materials.

*Director: Denis MAZUYER*

**LMFA**

LMFA - Laboratoire de Mécanique des Fluides et d’Acoustique (Fluid and acoustic mechanics laboratory)

LMFA - UMR CNRS 5509

LMFA develops basic and applied research in the field of transport (aeronautics, space, land and environmental impact), internal aerodynamics, multiphase flows, urban pollution, noise and turbomachinery.

*Director: Michel LANCE*

**ICJ**

ICJ - Institut Camille Jordan

ICJ - UMR CNRS 5208

ICJ is dedicated to research in pure and applied mathematics.

*Director: Elisabeth MIRONESCU*

**INL**

INL - Institut des Nanotechnologies de Lyon (Lyon nanotechnology institute)

INL - UMR CNRS 5270

INL’s vocation is to develop multidisciplinary research in the field of micro and nanotechnologies. Application areas cover information technology, living things and health, energy and the environment.

*Person in charge: Christian SEASSAL*

**LIRIS**

LIRIS - Laboratoire d’Informatique en Image et Systèmes d’Information (Computer image and information systems laboratory)

LIRIS - UMR CNRS 5205

LIRIS’s activities are grouped into two thematic departments: IMAGE (image analysis, modeling, simulation and rendering) and DATA, KNOWLEDGE AND SERVICES (knowledge discovery and data and service engineering).

*Person in charge: Liming CHEN*
PARALLEL TO THE THREE YEAR ENGINEERING COURSE, ÉCOLE CENTRALE DE LYON, WITH ITS EXPERTISE IN EDUCATION AND RESEARCH, HAS DEVELOPED ADDITIONAL TRAINING WHICH USES THESE RECOGNIZED SKILLS.

CONTINUING EDUCATION
École Centrale de Lyon offers inter- and in-company programs and tailor-made ones that address science and innovation and also management applied to complex technological environments. Resolutely forward-looking, they take into account the societal issues and developments in your company.

SANDWICH COURSES
Since September 2012, a course in Energy engineering with a facility design option has been available through the apprenticeship and continuing education channels. This course, in partnership with ITII Lyon, is the first engineering sandwich course proposed by École Centrale de Lyon.

MASTERS
Master’s degree for research and/or professional purposes
École Centrale de Lyon is jointly accredited to award:
✓ 13 Master minors for research purposes in the Science, technology and health field
✓ 1 Master minor for research purposes in the Social sciences and humanities field
✓ 1 Master minor for research purposes in the Law, economics and management field

It has also signed agreements for two Master minors in Social sciences and humanities.

MASTERS IN NANOSCALE ENGINEERING
This Master’s degree offers a two-year Master 1 and Master 2 program in Nanosciences and Nanotechnologies.

INNOVATION, DESIGN, ENTREPRENEURSHIP & ARTS (I.D.E.A.) PROGRAM
École Centrale de Lyon and EMLYON Business School are offering the first program in entrepreneurial innovation, Innovation, Design, Entrepreneurship & Arts - IDEA, which aims to train entrepreneurs in innovation to be agile in complex environments, taking full advantage of globalization according to humanist and sustainable development criteria.

DOCTORAL AND RESEARCH SUPERVISION (HDR*) STUDIES
As the culmination of graduate studies, the doctorate corresponds to 8 years of higher education. It lasts for three years after obtaining a Master’s degree or can be awarded on the basis of recognition of an equivalent level. After oral examination of a thesis, it gives the degree of doctor.

*HDR: Accreditation allowing the bearer to supervise research work.
JOIN RICH AND VARIED NETWORKS

UNIVERSITÉ DE LYON
École Centrale de Lyon has been a founding member of the Université de Lyon since 1995. It is part of a Research and Higher Education Cluster (PRES) which includes around 20 establishments in Lyon and Saint-Etienne
www.universite-lyon.fr

THE ÉCOLES CENTRALES GROUP
The Écoles Centrales group was formed in 1990, and comprises the schools of Lille, Lyon, Marseille, Nantes and Paris. Each year, it recruits general engineers via the Centrale Supelec common competition, the Casting admission competition and through foreign selection programs.
The schools account for a network of 30,000 active Centrale engineering graduates, living and working across the globe, in a wide variety of businesses, sectors and roles.

COLLÈGE DES HAUTES ÉTUDES LYON SCIENCES
CHELS was created in 2013 by École Centrale de Lyon, Conservatoire Nationale Supérieur de Musique et de Danse de Lyon (CNSMD), École Nationale Supérieure de Lyon (ENS), Sciences Po Lyon and VetAgro Sup.
It prepares students from all five institutions for decision-making in complex environments around two main areas: humanities and social sciences, and the exact and biological sciences.

ALUMNI
The École Centrale de Lyon student’s association (ACL) brings together students and engineers from the School. On campus, it sponsors conferences, helps to organize events and acts as the students’ point of contact for career advice.

IN ORDER TO PROVIDE ITS STUDENTS WITH TRAINING AS CLOSE AS POSSIBLE TO MARKET REALITIES, ÉCOLE CENTRALE DE LYON HAS SET UP A NUMBER OF PARTNERSHIPS. THESE ENABLE IT TO OFFER ITS ENGINEERING STUDENTS DUAL DEGREES OR THE OPPORTUNITY TO COMPLETE THEIR STUDIES IN A PARTNER INSTITUTION. DIVERSITY, SYNERGY AND KNOWLEDGE ARE THE KEY WORDS OF THESE NETWORKS.
BECOME A STUDENT AT THE ÉCOLE CENTRALE DE LYON AND ADOPT THE LYON ATTITUDE

LIVING ON THE ÉCULLY CAMPUS MEANS:

✔️ Enjoying a privileged environment on 16 hectares of wooded land
✔️ Being at the heart of school life (associations, library, etc.)
✔️ Having access to many sports facilities (stadium, sports fields, tennis courts, gym, etc.)
✔️ Being able to use the dining facilities (university restaurant and cafeteria)
✔️ Living only 20 minutes away from the city center by public transport
✔️ Living on the campus

✔️ The school also does its best to assist people with disabilities during their studies in terms of both physical accessibility and access to knowledge: special rooms, outdoor elevator and even some disability sport with wheelchair basketball.