

Tell me more about ENGINEERING PROFESSIONS

EEEA¹, CIVIL ENGINEERING, MECHANICAL ENGINEERING AND
MECHANICS

- I have a natural curiosity for science.
- I have a good capacity for analysis and abstraction.
- I know how to conduct logical reasoning.
- I like to manipulate and experiment with things.
- I'm interested in technological innovations.
- I would like to be able to use IT and modelling tools.
- I am willing to work hard at my studies.
- I have a solid grounding in scientific subjects.
- Candidates should ideally have a secondary-level background in science.

Most of the professions listed require master's level qualifications, but some of them can be accessed after 2 or 3 years' higher education.

*Examples taken from the list of professions compiled by ODIF (Observatoire de la Direction des Formations), part of the University of Lille.
<https://odif.univ-lille.fr/>*

¹ Electronics, electrical energy and automation

WHICH PROFESSIONS?

Engineering graduates can be found across all business sectors: agri-food, construction and public works, energy, environment, transport, metallurgy...

DESIGN - DEVELOPMENT

- Design engineer
- Engineering and design technician
- Mechatronics engineer
- Robotician
- Renewable energy project manager
- Acoustician
- Soil mechanics engineer
- Embedded electronics engineer

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CONSULTANCY - CONTROL - SALES

- Customer support engineer
- Energy efficiency engineer
- Business engineer
- Test engineer
- Quality control technician

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TEACHING - RESEARCH

- University lecturer
- Research engineer
- Secondary school teacher

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PRODUCTION - MANUFACTURING - MAINTENANCE

- Operations engineer
- Methods engineer
- Systems engineer
- Maintenance technician
- Works foreman
- Home automation technician
- Head of production

...

UNIVERSITY OF LILLE

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POST-SECONDARY COURSES AVAILABLE AT THE UNIVERSITY OF LILLE

PROFESSIONAL TRAINING IN 2 YEARS

Theory combined with apprenticeships in the field. Selective admission.

DUT **ELECTRICAL ENGINEERING AND INDUSTRIAL COMPUTING**

ALSO AVAILABLE AS PARALLEL STUDENT/EMPLOYEE PROGRAMME.

Trains technicians in areas involving electronics, automation, industrial computing, electrotechnology, power electronics, networks and modern communication tools.

DUT **MECHANICAL & PRODUCTION ENGINEERING** ALSO AVAILABLE AS PARALLEL STUDENT/EMPLOYEE PROGRAMME

Trains senior technical staff capable of analysing and contributing to the design of mechanical systems across all sectors.

THE DEUST PROGRAMME IS AVAILABLE TO APPLICANTS WHO HAVE COMPLETED ONE SEMESTER OF UNIVERSITY STUDIES..

DEUST **MAINTENANCE AND NETWORK INFRASTRUCTURE** ALSO AVAILABLE AS PARALLEL STUDENT/EMPLOYEE PROGRAMME

Trains IT technicians with two primary focuses: maintenance and installation of networks.

3-YEAR BACHELOR'S DEGREES

Theoretical grounding to prepare for further study up to master's level and/or civil service examinations.

The "exact science and engineering" (SESI) programme offers gradual specialisation, with all first years taking the following 8 subjects: chemistry, EEEA¹, civil engineering, computer science, mathematics, mechanics, physics, and combined physics & chemistry. In semester 2, students can choose a path that will lead into either the **EEEEA, Civil engineering or Mechanics degree programmes**.

DIFFERENT OPTIONS ARE AVAILABLE.

DEGREE **EEEEA¹** OPTION **ESEA² – FUNDAMENTALS**

Course available in 2nd year, enabling students to master the tools needed to identify problem-solving approaches in EEEA.

DEGREE **CIVIL ENGINEERING** OPTION **CIVIL ENGINEERING**

Course available in 2nd year, offering broad training with a focus on the design and gauging of structures and infrastructure.

DEGREE **CIVIL ENGINEERING** OPTION **URBAN ENGINEERING**

Course available in 2nd year, looking at the challenges related to planning, urban networks and managing collective resources. Trains future professionals in planning and sustainable development.

DEGREE **EEEEA¹** OPTION **ELECTRICAL ENGINEERING**

Course available in 3rd year, teaching students how to use the most common electrical measurement, analogue and digital tools or spectrum analysers, as well as computerised tools to simulate electronic circuits and for digital electronics, electrotechnology and automation..

DEGREE **MECHANICS** OPTION **MECHANICAL ENGINEERING**

Course available in 2nd year, designed to equip students with the scientific, technical and practical skills needed for mechanical engineering.

DEGREE **MECHANICS** OPTION **MECHANICAL SCIENCE AND ENGINEERING**

Course available in 2nd year, training highly qualified mechanics professionals capable of innovating and transferring cutting-edge skills developed in university laboratories to the industrial world.

¹ Electronics, electrical energy and automation

² Electronics, electrical systems and basic automation

SPECIFIC BACHELOR'S DEGREE PROGRAMMES WITH SELECTIVE ADMISSION AND LIMITED CAPACITY

CURSUS **MASTER'S IN ENGINEERING (CMI)**

SELECTIVE PROGRAMME 

Course available from year 1 and taught over 5 years. Based on the coursework of the primary degree with additional modules. Graduates qualify as engineers.

Two CMI options are available:

DEGREE **EEEEA**¹

OPTION **EEEEA - MINT**³

DEGREE **MECANICS**

OPTION **MECANICS**

³ Microelectronics - nanotechnology - telecommunications

OPTION **SESI BILINGUAL** SELECTIVE PROGRAMME

Course with limited capacity providing specific competency in scientific English. Offered in 1st year; students can continue to 2nd year in mathematics and combined physics & chemistry.

PARCOURS **TAILORED SESI** SELECTIVE PROGRAMME

Course intended for holders of a technological baccalaureate or equivalent to help them succeed and pursue their studies to bachelor's level in the following areas: chemistry, EEEA, civil engineering, computer science or combined physics & chemistry.

PARCOURS **PEiP** SELECTIVE PROGRAMME

2-year programme to prepare for Polytech engineering schools. Based on the same teaching as the regular programme but with additional coursework focusing on engineering as a profession and English language skills with a view to gaining admission to the engineering cycle of the Polytech network.

AFTER 2 YEARS OF HIGHER EDUCATION

Whatever your background, you have the option of completing professional training. This course lasts one year and allows you to specialise, obtain a dual qualification or enter the job market after 3 years in higher education. This professional diploma is designed to lead immediately to employment.

After 2 years of professional training, subject to certain conditions, you can also join a bachelor's degree programme.

AFTER A BACHELOR'S DEGREE

You can continue your studies to master's level (5 years in higher education) in fields such as civil engineering, mechanics, mechanical engineering, industrial engineering, automation, robotics, electrical systems, networks and telecommunications.

Graduates can also apply for admission to engineering schools at the end of their 2nd or 3rd year (e.g. Polytech'Lille).






The information here is valid for the reference year 2018-2019. The academic programmes at ULille are subject to change in September 2020

More info: consult the catalogue of courses at <https://www.univ-lille.fr/formations> or contact SUAIO

PARCOURSUP

Find out about the requirements and terms of access for each course at: www.parcoursup.fr

Main campuses:

-  Campus Cité scientifique (V. D'Ascq)
-  Campus Moulins-Ronchin
-  Campus Pont-de-Bois (V. D'Ascq)
-  Campus Roubaix-Tourcoing
-  Campus Santé (Lille ; Loos)

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