

REINVENT ENGINEERING



BSc Bachelor of Science in Engineering

3-YEAR PROGRAMME IN FRANCE
FULLY TAUGHT IN ENGLISH

About Centrale Nantes

Founded in 1919, Centrale Nantes is one of France's top engineering schools in science and technology. We are committed to **sustainable development, the energy and digital transition, and engineering for health**.

As part of the prestigious Écoles Centrale Group (with Centrale Lille, Centrale Lyon, Centrale Méditerranée and CentraleSupélec), we offer high quality education to talented students from around the world.

Alongside academic excellence, Centrale Nantes benefits from a **strong network of industry and institutional partners**, enabling cutting-edge research and innovation recognised across Europe and beyond.

EXPERIENCE LIFE ON CAMPUS

Centrale Nantes is home to over **2,000 students**, one third of whom are international, on a **40-hectare green campus** just minutes from the city centre.

Beyond classrooms and labs, students can benefit from **13 cutting-edge research platforms, a start-up incubator, and excellent sports facilities** — from a gymnasium and squash courts to an artificial sports field. Campus life is lively and welcoming, with **more than 120 clubs and associations** to get involved in.



CUTTING-EDGE FACILITIES FOR RESEARCH AND INNOVATION

With 13 research platforms on campus, students have **access to exceptional equipment for their practical work** — from ocean engineering tanks and vehicle and engine test benches to ecoconstruction platforms and advanced composite materials and processes.

The on-campus FabLab is a creative hub open to the entire community. It combines high-tech equipment and expert guidance to support, train, and inspire students as they bring their ideas to life.

CENTRALE NANTES IN THE RANKINGS

- > **102nd** (4th institution in France) for Mechanical Engineering, and **top 200** (4th institution in France) for Civil Engineering in the QS World University Rankings by Subject 2025
- > **Top 400** for Engineering in The Times Higher Education World University Rankings by Subject 2025 (3rd school in France)
- > Consistently ranked in the **top 10** French Engineering Schools (L'Étudiant)



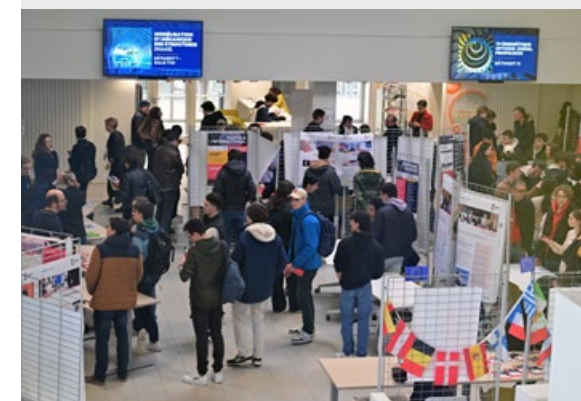
BACHELOR OF SCIENCE IN ENGINEERING (BSc)

Who is this programme for?

For students who are passionate about science, eager to explore and understand the world, and motivated to turn knowledge into action.

The BSc at a glance

- > A **3-year fully accredited** bachelor's degree
- > Open to international applicants with a **high school diploma** in science or equivalent
- > **Fully taught in English**
- > **Mixed cohorts** of international and French students
- > **1700 face-to-face teaching** hours



Mathilde, Class of 2027



Why did you choose the BSc at Centrale Nantes?

"The English-language programme, the internships and the school's reputation were all major factors in my decision to choose the BSc."

How would you sum up your first year?

"I learned a lot and discovered many new things during my classes, met some wonderful people in my class, and still have room for improvement in certain subjects."

What about student life?

"On campus, it is very lively and welcoming, with lots of different activities. In Nantes, there are lots of opportunities to go out, both for cultural activities and to relax with friends."

What are your career plans?

"I want to work in biomedical engineering, either by continuing my studies at an engineering school in France or by going to a university abroad."

Centrale Nantes in three words?

"Dynamic, independent, projects."

COURSE CONTENT

This three-year programme offers a strong scientific foundation while gradually opening the door to specialisation. The first two years comprise core courses, while the final year offers a project-based approach with specialisations in **Mechanical Engineering, Fluids and Energy, Civil Engineering, or Signal Control and Robotics**.

In line with the school's values, around one third of the curriculum focuses on humanities, social sciences, and languages, with **a strong emphasis on professional skills and entrepreneurship**. Students can expect around 20 hours of classes per week, with additional independent study playing a key role in consolidating knowledge and developing autonomy – while still leaving time for projects and campus life.

Close ties with industry run throughout the programme. External speakers and professionals play a key role, especially in the final year, ensuring **strong links between academic learning and real-world practice**.

BSC 1	HOURS
Mathematics and Computer Science	208
Physics and Engineering	204
Professional skills and Sustainability	176
Languages	64

BSC 2	HOURS
Mathematics, Numerics and Control	148
Engineering	192
Professional skills and Sustainability	244
Languages	80
6-week internship	-

BSC 3	HOURS
Engineering	180
Engineering Specialisation Projects	72
Professional skills and Sustainability	96
Languages	44
16-week internship	-



WORK EXPERIENCE AND MOBILITY

Students gain work experience through two internships: a **six-week internship** at the end of the second year to discover the **professional environment**, and a **16-week final-year internship**, either in France or abroad.

It is possible to further customise the curriculum by opting for a gap year after the first or second year.



Inès, Class of 2027

"I chose this course for the academic reputation of the Ecoles Centrale, which is one of the most comprehensive and formative, opening up numerous job prospects. What's more, the bachelor's degree is taught in English, which was a major factor in my choice, as it opens doors for me internationally. Student life was also a major factor. Few universities put so much emphasis on extracurricular activities, which only confirmed my choice. The final aspect was Centrale Nantes' social commitment, since environmental issues and gender equality are issues that are close to my heart. Seeing that Centrale Nantes is taking real steps to help bring about change convinced me."

5 REASONS to choose the Bachelor of Science in Engineering



FULLY TAUGHT IN ENGLISH

All courses are delivered in English, with small group teaching to maximise support.



AN INTERNATIONAL ENVIRONMENT

Learn alongside international and French students, on a campus with more than 80 nationalities represented.



PATHWAYS TOWARDS SPECIALISATION

In the third year, choose a project-based specialisation in Mechanical Engineering, Fluids and Energy, Civil Engineering, or Signal Control and Robotics.



FURTHER STUDY OPPORTUNITIES

This accredited degree opens the door to further study, for example on a Master's programme at Centrale Nantes, or at another institution in France or internationally.



CLOSE TIES WITH INDUSTRY

Benefit from two integrated internships, plus regular input from industry professionals and guest speakers.

CAREERS GUIDANCE

At Centrale Nantes, students receive **personalised support from our Careers Service** to help shape their professional journey. Guidance is offered through one-to-one sessions (on campus or online), meetings with graduates, webinars, and career forums.

As future graduates, students also gain access to a powerful network of more than **20,000 alumni across 44 countries** – opening doors to opportunities worldwide.

FURTHER STUDY

After completing the Bachelor of Science in Engineering, students can **continue their education with an international Master's programme** in France or internationally.

Centrale Nantes offers four Master of Science (MSc) programmes, all fully accredited by the French Ministry of Higher Education and Research. Students can also apply for a limited number of places on the French-taught Engineering Programme.

EXCITING CAREER PROSPECTS

The Bachelor of Science in Engineering equips students with the skills needed for **direct entry into the workforce**. Graduates enjoy excellent career prospects in organisations of all sizes – from start-ups and SMEs to large international companies.

Career opportunities span a wide range of sectors, including:

Transport: automotive, aeronautical, naval and railway, Building, public works and sustainable construction, Energy, water and environment, Food and beverage industries, Health and biomedical, Robotics and telecommunications, Defence, Maritime industries (offshore and marine renewable energy).

STUDENT LIFE BEYOND THE CLASSROOM

As indicated by our **'Bienvenue en France' (Welcome to France) award** we attach great importance to making you feel welcome at Centrale Nantes. As soon as you receive your admission offer you'll have the opportunity to **join and interact with our student community online**. Our International Relations Team are on hand, together with the Accents International Student club, to facilitate your arrival. They will **help you find accommodation, pick you up at the airport or train station, and provide support for your administrative procedures**.

To help you settle in, you'll be able to participate in events organised especially for international students, as well as the wider and particularly dynamic student life on campus. **With over 120 student clubs and associations, there's something for everyone** from sports to theatre to humanitarian activities, and so on.

Centrale Nantes is committed to diversity, equality and inclusion for its staff and students. Our goal is to ensure that everyone is free to embrace their differences and identity without fear of scrutiny from others and to maintain equality and respect for all. In addition to our on-site infirmary for preventative medicine and first aid, all students have access to a free remote counselling service if needs be.



NANTES – A GREAT PLACE TO LIVE, WORK AND STUDY!

The city of Nantes is home to 60,000 students, attracted by the quality of life and excellent career opportunities in France's sixth largest city. Compared with other major French cities such as Paris or Lyon, **Nantes offers a more affordable cost of living**.

Recognised as both a European Green Capital and a FrenchTech Capital, Nantes combines sustainability with innovation. The city has a vibrant cultural life, from museums and festivals to unique attractions like Les Machines de l'Île.

Just one hour from the Atlantic coast and two hours from Paris by high-speed train, Nantes is easy to reach and well connected internationally.

HOUSING MADE EASY

Our International Relations team will secure accommodation for all first-year international undergraduate students, either in our on-campus residence or in carefully selected nearby private student residences.



Contact
admission@ec-nantes.fr

Meet with us



JOIN US AROUND THE WORLD

Centrale Nantes, with the support of Campus France and other partners, attends education exhibitions and fairs all over the world. At every event we meet with students and provide free education advice and information about studying at Centrale Nantes and employability. Our aim is to help prospective students to match their expectations.

JOIN US ONLINE

You can also find out more about Centrale Nantes courses by joining us online for a webinar session.

Check our website for upcoming dates:

www.ec-nantes.fr/international/study-at-centraledenantes/meet-us

How to apply



- > Open to students preparing a high school diploma or equivalent, or having obtained this qualification within the last 12 months.
- > Early applications are recommended as they are reviewed on arrival, with offers made to successful applicants until such time as the programme has reached its full capacity.
- > Following review of your application, you may be invited to an interview – or, for top candidates, receive a direct offer.
- > Admission results are communicated quickly after review/interview.

Apply online

<https://ecandidat.ec-nantes.fr>

TUITION FEES AND FINANCING

€12,000 per annum. Guaranteed for the duration of the programme.

Elite Scholarships may be awarded based on scientific excellence criteria. The award is for the duration of the 3-year programme for a maximum annual amount of €6000.

Early bird applications may be awarded a tuition fee reduction for the first year of the programme.



Find out more about the BSc on our website



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