

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. Our expertise is focused on four key areas shaping the future of engineering: **renewable energy, carbon-free mobility, sustainable materials and industry, 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, labs and research platforms, students have access to a **Fablab and a start-up incubator as well as excellent sports facilities** — from a gymnasium and squash courts to an artificial sports field and a climbing wall. 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

- > **Top 250** (4th institution in France) for Mechanical Engineering in the QS World University Rankings by Subject 2026
- > **Top 400** for Engineering and Technology in the QS World University Rankings by Subject 2026
- > Consistently ranked in the **top 10** French Engineering Schools (L'Étudiant)
- > **3rd in France** for general engineering bachelor's degree programmes (Le Figaro Étudiant 2026)



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

- > **3-year fully accredited degree**
- > Open to applicants with a science-based high **school diploma** or equivalent
- > **100% taught in English**
- > **International and French student cohort**
- > **1,700 hours of face-to-face teaching**



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.

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 Core Curriculum	108
Engineering Track (choice between Signal, Control & Robotics or Mechanical & Energy Engineering)	96
Engineering Specialisation Projects	72
Professional skills and Sustainability	96
Languages	44
16-week internship	-



GAIN PROFESSIONAL EXPERIENCE

- > **Year 2:** A six-week internship to discover the professional environment.
- > **Year 3:** A 16-week final-year internship in France or abroad.
- > **Internship companies:** Examples from 2026 include Dassault Systèmes, SR Technics and Total Energies.

CUSTOMISE YOUR CURRICULUM

Take an optional gap year after Year 1 or Year 2.



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."

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."

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 the BSc, graduates can pursue a Master's degree in France or abroad. In 2026, our graduates joined programmes at Politecnico di Milano (Italy), TU Delft (Netherlands), Centrale Lyon (France), Universidad Politécnica de Madrid (Spain) and TUM (Germany) for example. Centrale Nantes also offers four fully accredited MSc programmes and a limited number of places on its 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

> A warm welcome

Centrale Nantes holds the **Bienvenue en France label**, reflecting our commitment to **welcoming international students**.

As soon as you receive your admission offer, you can **connect with our student community online before you arrive**.

Our International Relations team and the Welcome Team will help you settle in, including:

- ♦ finding accommodation
- ♦ organising pick-up from the airport or train station
- ♦ completing administrative procedures

> A lively campus

You can **take part in welcome events** for international students and enjoy a vibrant campus life. With over **120 student clubs** and associations, there is something for everyone—from sport and theatre to cultural and humanitarian activities.

> An inclusive and supportive environment

Centrale Nantes is **committed to diversity, equality and inclusion**, ensuring that everyone feels respected and free to be themselves. Students have access to an on-campus health centre and a free remote counselling service.



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

Home to 60,000 students, **Nantes was ranked France's 5th-best student city** by L'Étudiant in 2026. It combines quality of life and career opportunities with a lower cost of living than Paris or Lyon. Students should budget up to €800 per month for accommodation, food and daily expenses.

A **European Green Capital** and **French Tech Capital**, Nantes offers a vibrant cultural scene and attractions such as 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



All first-year international BSc students are guaranteed accommodation in our residence on campus.



Contact
admission@ec-nantes.fr

Meet with us

JOIN US AROUND THE WORLD

Centrale Nantes regularly attends education fairs worldwide, where you can meet our team and learn more about our programmes, student life and career opportunities.

JOIN US ONLINE

You can also find out more about Centrale Nantes courses by joining us online for a webinar or a virtual open day.

Check our website for upcoming dates:

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

How to apply

- > Open to applicants under the age of 22 who hold, or are completing, a high school diploma or equivalent.
- > Apply early: applications are reviewed as they are received, and offers are made until the programme is full.



- > Consult the application process and calendar

Apply online

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

TUITION FEES AND FINANCING

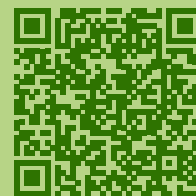
€12,000 per annum. Guaranteed for the duration of the programme.

Partial tuition fee waivers 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 €3000.

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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