

REINVENT ENGINEERING



Bachelor Programmes

FULLY TAUGHT IN ENGLISH

**BSc Bachelor of Science
in Engineering**

**BBA Data, AI
& Management**

Co-accredited with  Audencia



ABOUT US

Centrale Nantes

Drawing on **over one hundred years of history**, our mission at Centrale Nantes is to 'reinvent engineering'. As a member of the prestigious Ecoles Centrale Group and a founding member of Nantes Université, we proudly uphold the tradition of French engineering schools by providing **world-class education in science and technology from Bachelor to Master through to PhD**.

Our faculty's pioneering research directly informs the curriculum, ensuring that students are exposed to the latest advances in science and technology. This integration guarantees a high quality learning experience, with a **focus on innovation and real-world applications**. Our strong **commitment to academic excellence and sustainable development** ensures that students are well prepared to meet the ever-changing demands of today's global job market and to address the key challenges of ecological transition.

Centrale Nantes in the rankings



125th in the world for Mechanical Engineering in the QS World University Rankings by Subject 2024



Top 300 for Engineering in The Times Higher Education World University Rankings by Subject 2024 (3rd school in France)



Bienvenue! Welcome to Campus!

International students make up around 40% of our student body, bringing a truly global perspective to Centrale Nantes, whose Nantes campus is home to over 80 different nationalities. We are **committed to providing a welcoming, supportive, and inclusive environment** for students from all over the world. We give you the **opportunity to join and interact with our student community online** as soon as you receive your offer of admission. Once enrolled you will also join **a network of over 20,000 students in 44 different countries**.

Our teams are on hand to help you prepare your arrival in terms of accommodation, visas, enrolment etc. To help you settle in, you'll be able to participate in events organised for international students, as well as the wider and particularly dynamic student life on campus. **With over 110 student clubs and associations, there's something for everyone** from sports to theatre to humanitarian activities, and so on.

Centrale Nantes houses 17 buildings on a 40-acre green campus, a stone's throw from Nantes city centre. In addition to the standard facilities of a university campus, it is home to **13 research platforms, a business incubator and modern sports amenities** including a gymnasium, squash courts, climbing wall and an artificial sports pitch.

Our on-campus residence offers a limited number of places for first year international undergraduate students.

Two bachelor programmes on offer at Centrale Nantes

Bachelor of Science in Engineering

AT A GLANCE

The BSc in Engineering is a high quality three-year academic programme comprising two years of core curriculum courses and a final year with a choice of four academic focus areas: Mechanical Engineering, Fluids and Energy, Civil Engineering or Signal Control and Robotics.

Graduates have the opportunity to pursue their studies on a Master's programmes at Centrale Nantes, or elsewhere in France or abroad, or, alternatively to join the workforce after graduation.

STRUCTURE

Bachelor's degree in 3 years, including 2 years of core curriculum and 1 year with an academic focus - 180 ECTS



QUALIFICATION

Bachelor's degree. Fully accredited by the CTI*



HANDS-ON INDUSTRY EXPOSURE

Projects and lecturers from industry
Two internships



INTERNATIONAL OUTLOOK

Mixed intake of French and international students



TUITION FEES

See our website for tuition fees. Scholarship and tuition fee reductions available.



ADMISSION

Rolling admissions. Selected candidates will be invited for an online interview until all places have been filled



BBA Data, AI & Management- Co-accredited with Audencia

AT A GLANCE

A 4-year multi-skills course combining Management, Artificial Intelligence and Engineering to meet the changing needs of companies. The BBA Data, AI & Management prepares multi-disciplinary managers to improve business performance. Students acquire a high level of expertise in finance, marketing and strategy, as well as technical expertise in artificial intelligence and data, focusing on the collection, analysis and use of data.

STRUCTURE

Bachelor in Business Administration in 4 years combining Management and Engineering. - 240 ECTS



QUALIFICATION

Bachelor's degree. Fully accredited by the CTI and the CEFDG*



HANDS-ON INDUSTRY EXPOSURE

Three company / laboratory-based internships. Masterclasses with industry experts



INTERNATIONAL OUTLOOK

Mixed intake of French and international students



TUITION FEES

See our website for tuition fees. Scholarship and tuition fee reductions available.



ADMISSION

Rolling admissions. Selected candidates will be invited for an online interview until all places have been filled



*CTI / CEFDG - the independent bodies respectively in charge of the accreditation of engineering degrees and business degrees in France.



Bachelor of Science in Engineering (BSc)

Course content

This high-quality programme consists of 2 years of core courses and a final year in which students can start to specialise: in **Mechanical Engineering, Fluids and Energy, Civil Engineering or Signal Control and Robotics**.

In line with the school's values, a third of the programme focuses on social sciences and languages, with a **strong emphasis on the development of professional and entrepreneurial skills**.

Students also have regular contact with industry through study and engineering projects. External speakers and industry experts play an active role in the programme, particularly in the final year.

Career prospects

The Bachelor of Science in Engineering **prepares its students for direct entry into the workforce**. Excellent careers prospects await graduates in startups, SMEs, mid-sizes and large groups alike across varied sectors of activity: Transport - automotive, aeronautical, naval and railway; Building, public works and sustainable construction; Energy, water and environment; Food and beverage industries; Health, biomedical; Robotics and telecommunications; Defence; Maritime industry (offshore, MRE).

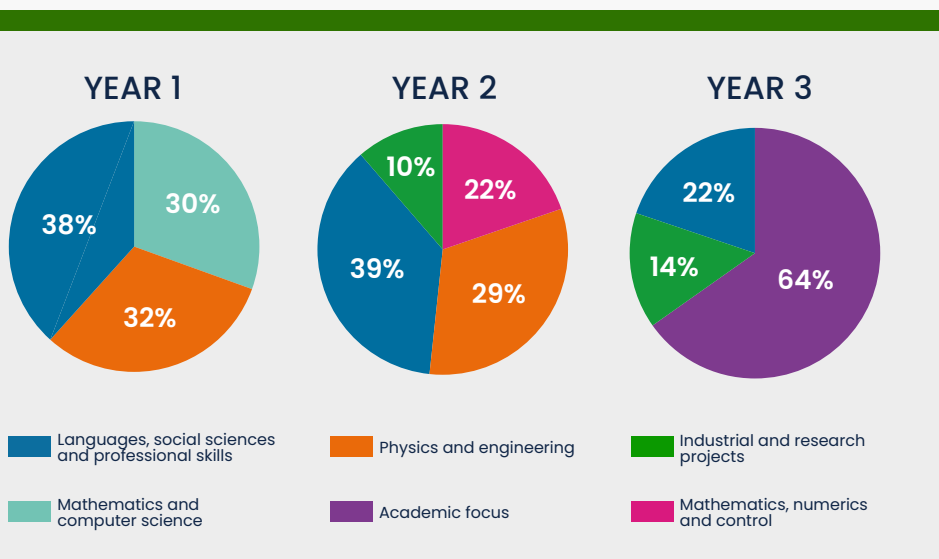
Students benefit from **individual careers guidance** from the Careers Team at Centrale Nantes. Face-to-face or online careers sessions, mentoring sessions with graduates, webinars, online forums, etc. help future graduates to find their way.

Further study

Graduates of the BSc in Engineering can pursue their studies with an **international master's programme in France or elsewhere**. They are ideally placed to continue their studies at Centrale Nantes on one of our 5 Master of Science (MSc) Programmes, Technology and Health - all taught in English.

Internships and mobility

Students gain invaluable work experience through 2 internships: a 6-week placement at the end of the year 2 and a final 16-week placement in a company, in France or abroad. It is possible to further customise the curriculum by opting for a gap year.



Research facilities

Centrale Nantes draws on a number of **strong industrial and institutional partnerships** to develop academic and applied research of the highest standards. With **13 research platforms on campus**, BSc students have access during their practical classes to equipment such as ocean engineering tanks, engine and vehicle test benches, and platforms for the durability and eco-construction of structures, and composite processes and materials.

Hallelujah – Class of 2021



"At Centrale Nantes] there was a very good balance between the scientific classes and the practical classes. Every year we had project work, an engineering project that we had to do. It gives the students an opportunity to really be creative, to come up with their own ideas. Currently I'm in Paris working in VINCI construction as an assistant project manager, in methods and studies with Sogea-Satom. My work includes working on technical designs, and studies for constructions in the 26 countries we have all over Africa."



5 REASONS to choose the Bachelor of Science in Engineering

1

Academic excellence

Centrale Nantes is consistently ranked in the top five engineering schools in France. Classes are taught in small groups and under close supervision, with plenty of opportunity for practical experience through workshops, tutorials and internships.

2

A choice of four academic focus areas in year 3:

Mechanical Engineering
Fluids and Energy
Civil Engineering
Signal Control and Robotics

3

Strong links with industry

Hands-on experience through two internships.
Regular contact with industry via industrial and engineering projects.
Industry experts play an active role in the curriculum.

4

Fully taught in English for a cohort of international students

Language of instruction - 100% English.
Learn French - language classes provided throughout the programme.
40% international students and 87 nationalities on campus.

5

Fully accredited degree preparing for Master's studies

Pursue your studies with an international master's programme in France or elsewhere.
Centrale Nantes offers 5 Master of Science (MSc) programmes, all of which are fully accredited by the French Ministry of Higher Education and Research.

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 extra-curricular 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."



BBA Data, AI & Management

Co-accredited with  Audencia

MANAGEMENT & DATA SCIENCE

About Audencia

Founded in 1900, Audencia is one of Europe's leading business schools. It is EQUIS, AACSB and AMBA accredited, a triple recognition awarded to only 1% of the world's business schools.

Audencia offers courses in management and communication from Bachelor's to PhD level. Multi-competency is also at the heart of the programmes offered in conjunction with partners in France and abroad.

Audencia has signed agreements with 215 academic institutions abroad and more than 900 national and international companies. It has more than 7,200 students, 169 permanent faculty and a network of more than 36,000 graduates.

Jointly developed by Audencia and Centrale Nantes, this programme draws on the academic excellence of both institutions to offer a programme with a **strong international and professional focus**.

Course content

The first year focuses on gaining a sound foundation in Management and Data. **Courses are coordinated by the two institutions and run in parallel.** The second year begins by consolidating the knowledge acquired in the first year in Business and Engineering. Semester 4 focuses on scientific skills, with courses currently taught by Centrale Nantes lecturers on the **Centrale Casablanca campus in Morocco**.

Semester 5 currently takes place on the **Audencia campus in Shenzhen, China**, and focuses on advanced courses for the business part of the programme. On their return to France, the students tackle the first phase of the programme's applied courses. The courses are co-piloted and co-taught by teachers from both institutions.

Academic exchanges in semesters 4 and 5 are likely to be extended to other destinations in the future, depending on the establishment of new partnerships.

The final year of the programme gives students the opportunity to work on **new hands-on projects to apply the skills acquired** over the first 3 years. The courses are again co-piloted and co-taught by teachers from both schools. The year ends with a 6-month work placement.

Further study

BBA graduates can continue their studies with a **Master's or Mastère Spécialisé® (advanced master) programme in France or abroad.**

They are also well placed to continue their studies within our schools with, for example, the MSc in Data Management in Corporate Finance at Audencia or an Advanced Masters (Mastère Spécialisé®) co-taught at both institutions.

Internships and mobility

Three internships during the programme give students ample opportunity to develop and put into practice their professional skills: 8 weeks of discovery in the 1st year, 16 weeks with a consultancy assignment in the 3rd year and a 24-week final year internship. **At least one of these internships must be undertaken abroad.** It is possible to further customise the curriculum by opting for a gap year.

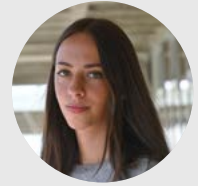
Career prospects

The BBA Data, AI & Management fully prepares its students for entry into the workforce. **Companies are looking to recruit graduates with cross-functional skills to meet their needs in an increasingly digital environment.**

With their combination of management and data engineering skills, graduates can opt for a more scientific career (data scientist, data analyst, etc.), a more commercial/management role (financial analyst, market research, etc.) or a hybrid position (chief data officer, business intelligence analyst).

Students benefit from individual careers guidance from the Careers Team at both Centrale Nantes and Audencia. Face-to-face or online careers sessions, alumni mentoring sessions, webinars, online forums, etc. help future graduates to find their way.

Partners



Mila Class of 2025

"I chose this program because I didn't want to focus only on business or engineering. I wanted a mix of both technical and management courses. This program perfectly combines in-depth technical knowledge with practical management skills, allowing to develop expertise in data while keeping a strong relational and business-oriented focus. Being part of both the Centrale and Audencia campuses is really a chance. It opens up more opportunities for activities, events, and meeting new people. The variety of social, academic, and cultural experiences available in Nantes really adds to the quality of student life."

5 REASONS to choose the BBA Data, AI & Management

1 Combine data engineering and management

Engineering and business courses are taught in parallel throughout the programme.

2 Unique facilities

A business incubator for researchers, students and graduates to encourage the creation of innovative start-ups.

Access to a supercomputer – one of France's most powerful regional computing centres in its category.

3 Strong links to industry

12 months work experience.

Practical workshops, lectures and Master Classes run by BBA partner companies.

4 International focus

100% in English

At least 12 months abroad

Mixed cohort of French and international students

5 Combined expertise and networks of two schools

A joint degree from two highly ranked schools.

Shared resources: access to both campuses, e-learning, media libraries, laboratories, etc.

Two alumni networks and two career centres for individual support.



Pyrahn – Class of 2025

"Being able to study in Casablanca has been a real advantage... We were living in a country that is transitioning from, let's say, 3rd to 1st world. They're using a lot of technologies – it could be data mining or AI – to help develop the country. Living there and experiencing, for example, the rebuilding of the public transport system and seeing the kind of issues that they're facing, combined with what we're learning in class, gave us a better understanding of our purpose and what we can bring to the table in our future careers."



A great place to live, work and study!

The city of Nantes is home to 60,000 students, drawn by the quality of life and strong employment prospects in France's sixth largest city. Compared to other major French cities like Paris or Lyon, Nantes offers a more affordable cost of living.

Nantes stands out as a European Green Capital and FrenchTech Capital. The city has a rich cultural scene, with museums, festivals, and unique attractions like Les Machines de l'île. One hour away from the Atlantic coast and only two hours from Paris by train, Nantes is easy to reach from all over the world!

Join us for a webinar!

Join the programme supervisor and our International support team for a webinar to learn more about both programmes, studying in France and ask your questions live.

See our website for all the dates!
Register here: <https://urlz.fr/sCxE>

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 evaluated on arrival, with offers made to successful applicants until such time as the programme has reached its full capacity.
- > Early applications may qualify for a tuition fee reduction.
- > Interview scheduled for eligible students
- > Admission confirmed shortly after interview

Apply online

BSc

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

BBA

<https://apply.audencia.com>

Contact

- ✉ admission@ec-nantes.fr
- 🌐 www.ec-nantes.fr/english-version



BSc



BBA



Cti
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**MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE**
*Liberté
Égalité
Fraternité*