CENTRALE LYON

Bachelor of Science in Data Science for Responsible Business

Degree level: Bachelor
Training time: 4 years
Language: English
Status: Student
Campus: Lyon-Ecully Campus

Objectives

The **Bachelor of Science in Data Science for Responsible Business** is a four-year, **fully English-taught program** that equips students with the skills to integrate **data science** and **artificial intelligence (AI)** into **responsible business** practices. Developed through a unique collaboration between **emlyon business school** and **Centrale Lyon**, this program merges technical expertise in **data analysis** and **AI** with a focus on **sustainability and social responsibility**. The curriculum emphasizes a hands-on approach, with opportunities for **internships**, **research**, and **real-world projects**. Students are trained to harness emerging technologies to drive business transformation and sustainable development.

By integrating the strengths of both institutions—emlyon's leadership in business education and Centrale Lyon's engineering and research excellence—the **BSc in Data Science for Responsible Business** prepares students for the growing demand for data science professionals who can navigate the challenges of responsible business. With access to cutting-edge research from **Centrale Lyon's CNRS-certified laboratories,** and the entrepreneurial spirit fostered by emlyon's incubators, graduates are well-positioned for careers as data scientists, AI consultants, and more, in a rapidly evolving global market.

Program

Courses

The first two years of the **Bachelor of Science in Data Science for Responsible Business** program focus on building a strong foundation in **artificial intelligence**, **data science**, and **responsible management**. In the third year, students select one of **three specialized tracks** to tailor their learning experience to their career goals.

100% in English! All courses are delivered entirely in English from start to finish.

Year 1 and 2: a common core

- Mathematics
- Computer science
- Data science
- Artificial intelligence technologies
- Corporate social responsibility (CSR)
- CSR and business practices
- 6-month internship (two 3-month internships)

Years 3 and 4: Specialization

Students can choose from three specialization tracks:

- Data Science
- Research
- Entrepreneurship

The curriculum offers advanced courses such as:

- Advanced Linguistic Models
- Modern Trends in AI
- Digital Marketing
- Corporate Law
- Innovation, Human and Machine Cognition

Three tracks, three projects

Years 3 and 4 are primarily project-focused, with three specialized tracks structured as follows:

- **Data Science**: Students join a company for the spring internship and participate in a large-scale, year-long project, which culminates in delivering a project solution at the end of the internship.
- **Research**: Students engage in a research project in collaboration with a research laboratory, following a similar approach to the Data Science track.
- **Entrepreneurship**: Students receive training and support from the emlyon business school and Centrale Lyon incubators to create and launch their own startup.

One course, two campuses

The Bachelor in Data Science for Responsible Business is co-accredited with emlyon business school. Each week, classes are held on the campuses of both schools:

- emlyon business school: 144 avenue Jean Jaurès - Lyon
- Centrale Lyon: 36 Avenue Guy de Collongue - Écully

International Experience

In the 3rd year, students have the opportunity to spend **one semester abroad** at a partner university of Centrale Lyon or emlyon.

Discover the map of international partners

Diploma and certification

The **BSc in Data Science for Responsible Business** leads to a joint degree awarded by emlyon business school and Centrale Lyon, accredited by the French State.



Career opportunities

- Big Data analyst
- Data analyst
- Data scientist
- Data science and AI consultant
- AI project manager

Focus The excellence of two leading schools

The Bachelor of Science in Data Science for Responsible Business draws on the expertise of emlyon business school, a grande école de commerce, and Centrale Lyon, ranked among the top engineering schools in France. It offers high-level teaching, personalised support and innovative learning spaces.

Admission requirements and application

Pre-requisites

- Hold a general high school diploma with a strong background in mathematics, or an equivalent foreign qualification.
- Have a good command of English.

Application Process

For French students:

Apply through Parcoursup. Selection is based on a competitive process, including online assessments and a motivational interview.

Apply through Parcoursup

International students

The **BSc Data Science for Responsible Business** is open to international students through a **competitive selection process**. Candidates are chosen by emlyon through a comprehensive online admissions procedure.

Discover the international recruitment process

Tuition fees

- Application Fee: €60 (waived for scholarship holders).
- Tuition Fees: €15,500 per year.

Useful links

- Training sheet on the emlyon website
- Campus France interview