



**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

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.

## Courses

**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 1 and 2: Core Curriculum

- Mathematics
- Computer Science
- Data Science
- Artificial Intelligence Technologies
- Corporate Social Responsibility (CSR)
- CSR and Business Practices

The program also includes two 3-month internships, providing students with six months of professional experience.

### 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.

## 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**

### **A co-accredited degree with emlyon business school**

Through this partnership, some courses will be held at the Gerland campus:

- 144 Avenue Jean Jaurès, 69007 Lyon

## **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: €14,650 per year.

## **Useful links**

- [Training sheet on the emlyon website](#)
- [Campus France interview](#)