



**CENTRALE  
LYON**

# Master 2 Chemistry and Materials Science

Degree level: Master

Training time: 1 year

Language: French

Status: Student

Campus: Lyon-Ecully Campus



The **Master 2 Chemistry and**

**Materials Science - Materials and Sustainable Development (MSD)** course aims to train materials science experts for academic and industrial research in the healthcare, energy and transport fields. Through this program, students acquire the following skills:

- Maintain a technological watch on the research and development of new materials and processes
- Develop strategies for the elaboration of innovative materials through clean processes in line with sustainable development.

- Conduct a research project in an international environment

## **Program**

The MSD Master 2 Chemistry and Materials Science is a one-year international master's degree (60 ECTS) consisting of **theoretical teaching** (33 ECTS) and a **5- to 6-month internship** (27 ECTS) in an industrial or academic research laboratory.

## **Teaching**

### **Commonron**

- Viscoelasticity of polymers
- Structural and chemical characterization (X-ray and electron)
- Materials and process design and selection
- Eco-design
- Project management
- English

### **Elective course**

Students choose **5 teaching units** from 15 covering **polymers, glass, metals, ceramics** and **composite materials** for applications in health, energy and transport in relation to sustainable development.

[Discover options](#)

## **Internship**

Students must complete a 5-6 month end-of-year internship. The work of the master's internship focuses on nano- or biotechnology-related subjects within a company or laboratory (in France or abroad).

## **Diploma and certification**

This course delivers a national master's degree - controlled by the State.



## **Career opportunities**

The diploma leads to executive and/or expert positions in research and development (R&D) in the materials field.

## **Focus**

### **A master's degree co-accredited with Université Claude Bernard Lyon 1**

As part of this partnership, some courses will take place on the campus of Université Claude Bernard Lyon 1

- Bâtiment Polytech Ingénierie des Matériaux Polymères  
15 Bd A. Latarjet, 69622 Villeurbanne Cedex

## **Admission requirements and application**

### **Pre-requisites**

- Students with an M1 in chemistry, materials science, or related scientific disciplines.
- Centrale Lyon engineering students as part of a double degree.

### **Application**

Applications are considered on the basis of a portfolio.

[Find out how to apply](#)

## **Tuition fees**

Acknowledging and anticipating your expenses is essential before committing to a training course with confidence.

[Find out more about Master's course fees](#) [Discover the average budget for studies at Centrale Lyon](#)

## **Administrative contact**

Education department - French-speaking Masters

Information and registration

scolarite.master-lyon@listes.ec-lyon.fr

## **Educational contact**

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## **Useful link**

- [Discover the training syllabus](#)