



**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@listes.ec-lyon.fr

Educational contact

Dubreuil Frédéric

Enseignant-Chercheur

frederic.dubreuil@ec-lyon.fr

Useful link

- [Discover the training syllabus](#)