# 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

Dubreuil Frédéric

Enseignant-Chercheur

frederic.dubreuil@ec-lyon.fr

## Useful link

- Discover the training syllabus