

CH-590

**Project in molecular sciences II**

Profs divers \*

Cursus	Sem.	Type
Chimiste	MA1, MA2, MA3, MA4	Obl.

Language of teaching	English
Credits	30
Session	Winter, Summer
Semester	Fall
Exam	During the semester
Workload	900h
Weeks	
<b>Hours</b>	<b>680 weekly</b>
Project	680 weekly
<b>Number of positions</b>	

**Remark**

MA3 only

**Summary**

Research project in one of our chemistry laboratories at SCGC. Duration: 4 months, if realized in industry, can then be extended to 6 months

**Content**

The practical education at the master in Molecular and Biological Chemistry is taking place in research laboratories at ISIC or elsewhere. Students are expected to contact the research group leaders to find a project. After project 1b, students are now diving into research.

The project in molecular sciences II (laboratory training for chemists) aims at students to become familiar to theoretical and/or practical approaches applied by chemists. It is possible to complete the Master's project at the same place.

Project II can be done in one or several laboratories of SCGC. It can be done in another laboratory at EPFL, but with a SCGC co-supervisor. Having done at least two semesters of master studies is required before doing project II.

Information, internal rules and application form can be found at:

<https://www.epfl.ch/schools/sb/fr/enseignement/scgc/etudes/masters/master-en-chimie-moleculaire-et-biologique/travail-dapprofondisse>

**Learning Prerequisites****Required courses**

Project 1b

**Learning Outcomes**

By the end of the course, the student must be able to:

- Choose methodology to target final objectives
- Create new molecules or materials
- Interpret data to explain insight
- Assess / Evaluate theory compare with practice

**Transversal skills**

- Use a work methodology appropriate to the task.

- Communicate effectively, being understood, including across different languages and cultures.
- Keep appropriate documentation for group meetings.
- Take responsibility for environmental impacts of her/ his actions and decisions.
- Take responsibility for health and safety of self and others in a working context.
- Respect relevant legal guidelines and ethical codes for the profession.
- Make an oral presentation.
- Write a scientific or technical report.

### **Assessment methods**

A report and an oral presentation are mandatory for project II for the evaluation and Pass or fail attribution.