Université Paris-Saclay

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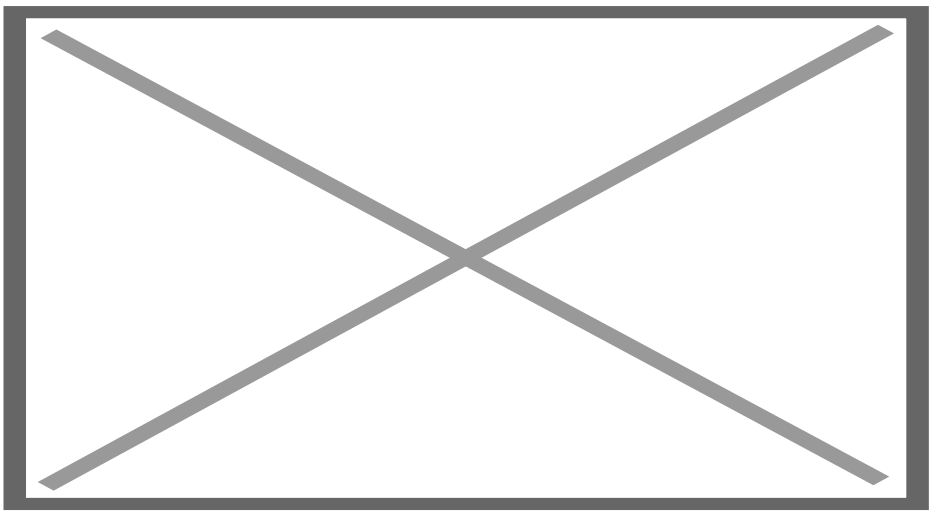
M1 Chemistry - International Track

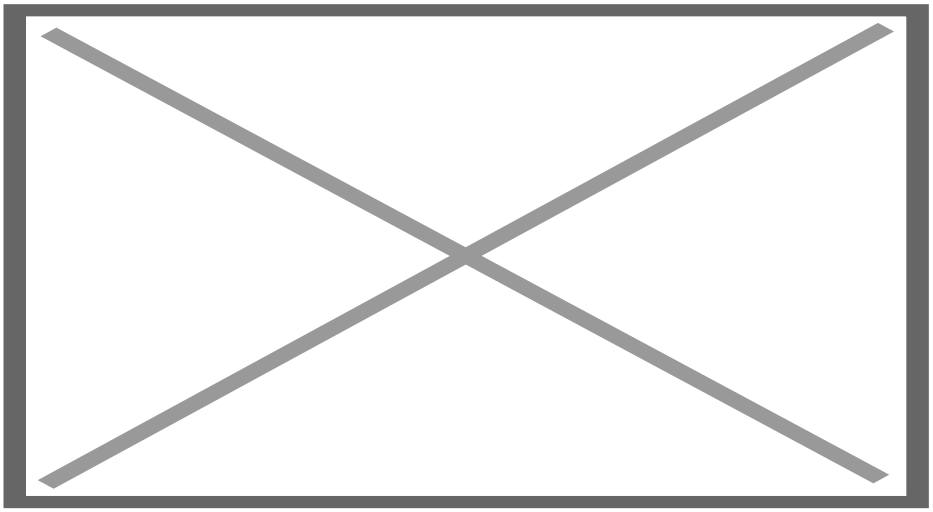
Master's degree
Specialisation Chemistry
Enrolment type
Formation initiale
Language(s) of instruction
English

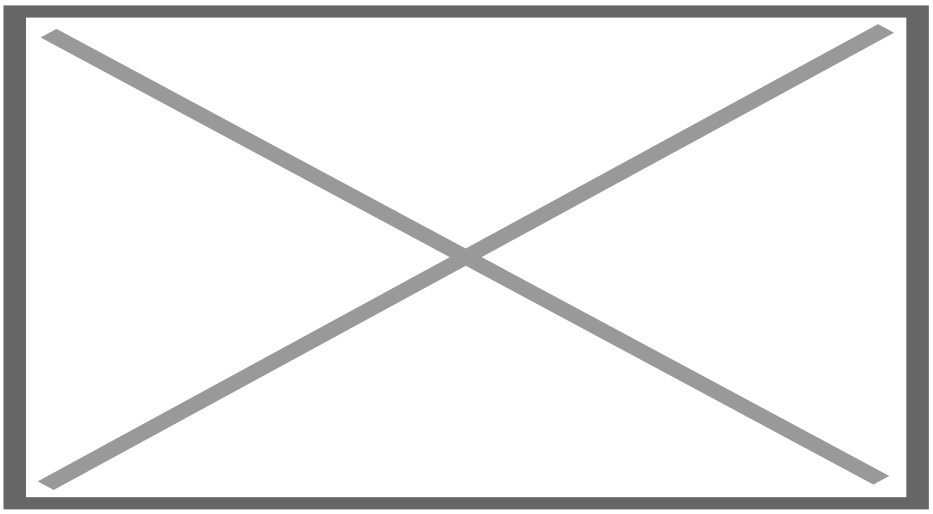
Two-year Master's degree in chemistry, entirely in English

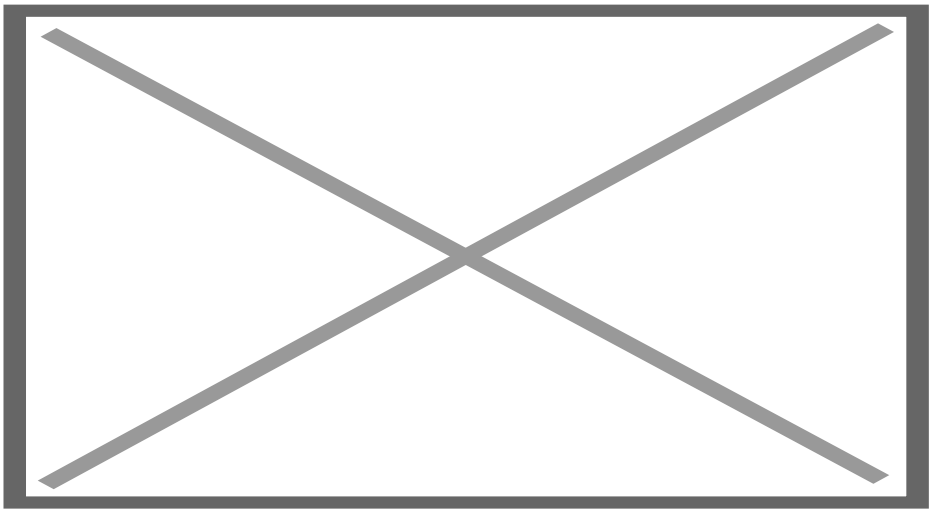
This Master's degree trains experts in the cutting-edge fields of physical chemistry. It is designed to meet the growing demand for qualified experts in research and development fields such as sustainable development, renewable energies, nanosciences and nanomedicine. This two-year programme, with Sem1, Sem3 and Sem4 in common with the 1st year Master's Chemistry International track-Erasmus Mundus, and Sem2 with the CHIPS track of the 1st year Master's Chemistry, also offers Sem2 the opportunity to produce a bibliographical summary and a laboratory internship of at least 2 months.

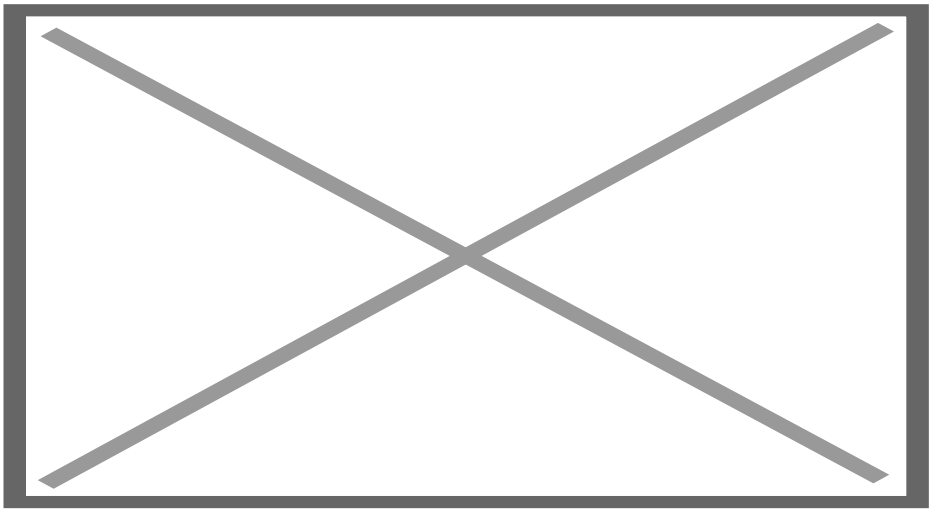
Télécharger la fiche détaillée
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Communicate information and results to a variety of target audiences, being able to describe a protocol and organise results. * Develop and implement a scientific approach in chemistry, whether theoretical or experimental, independently, and organising work time to achieve the set objectives. * Identify and implement methods and techniques for developing and/or producing compounds or materials, in compliance with good laboratory practice. * Select and implement methods for separating and characterising compounds, having mastered the theoretical principles of measurement and being able to interpret results. * Predict physico-chemical properties or the reactivity of compounds and/or materials by combining all disciplinary knowledge. * Understand the properties of the spatial organisation of matter and the temporal aspects of chemical phenomena.

Objectives

The first year of the master's program is a focused on Chemistry and whose objective is to enable students:
• to acquire solid basic knowledge and know-how in chemistry by strengthening the notions studied during their bachelor's program semester
• to define their professional project by providing them with cross-disciplinary and prevocational knowledge and skills.The first year of the master's program Chemistry

- International Track includes an internship that provides a first research experience in top-level scientific groups, and gives a large priority to lab trainings on up-to-date equipments and platforms. In

addition to specific modules of this master's program, some of which are available to other students and will favor intercultural exchange.

Débouchés

Further Study Opportunities

Master of Chemistry
PhD
PhD thesis
R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.

Calendar

Start of programme (indicative date)
02/09/2026
End of programme (indicative date)
31/08/2027
Admission

Admission Route

Chemistry
Physics, Chemistry

Capacity

Available Places

15

Target Audience and Entry Requirements

Bachelor in Science

Période(s) de candidature

Inception Platform

From 30/01/2026 to 15/05/2026

Supporting documents

Compulsory supporting documents

Copy of the last diploma.

Copy of passport.

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of English level.

Curriculum Vitae.

Recommendation letters.

Additional supporting documents

Copy diplomas.

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Quantum mechanics	5	Semestre 1	8	13	14			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail Organic / Inorganic chemistry towards sustainability	5	Semestre 1	9	15	8			
Charger le détail Kinetics / Electrochemistry	5	Semestre 1	16	12	16			
Charger le détail Introduction to biophysics and microscopies for life sciences	5	Semestre 1	12	11	10			
Charger le détail Experimental methods on Innovative research Infrastructures (IR and UV-Vis spectroscopies, NMR, MS)	5	Semestre 1	18	12	16			
Charger le détail Transferable skills	5	Semestre 1	0	24				
Charger le détail Digital Micro-Certification "The Challenges of Sustainable Chemistry"	0	Semester 1	10.5					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Charger le détail Spectroscopies du solide	5	Semestre 2	21	10.5	3				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Photo- et électro-stimulations	5	Semestre 2	2	27.5	7				
Charger le détail									
Soft materials and chemistry	5	Semestre 2	20	13	6				
Charger le détail									
Practical courses	5	Semestre 2			8				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Internship	10	Semestre 2		4					
Charger le détail									

Teaching Location(s)

ORSAY

Training campus

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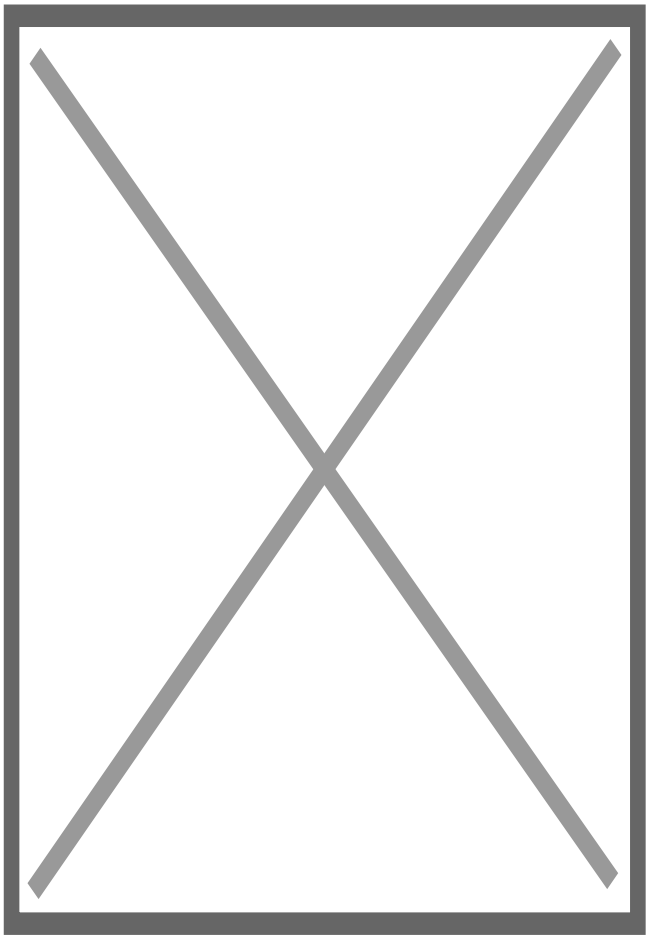

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Contact

- ### Debora Scuderi

  Enseignant-Chercheur, UFR Sciences, Université Paris-Saclay

- ### Program office

  Contact

http://www.universite-paris-saclay.fr/formation/master/chimie/m1-chemistry-international-track