Université Paris-Saclay

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M2 Chimie organique

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

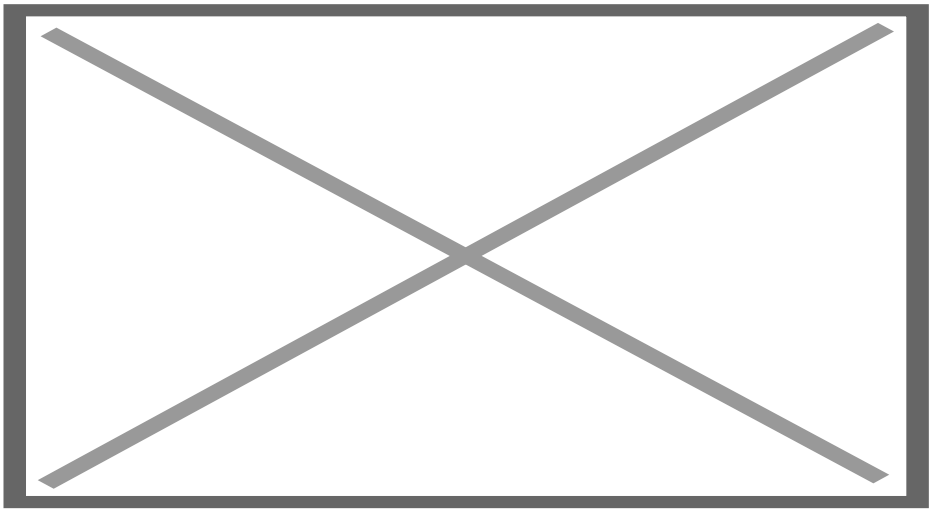
Preparing for a Career in Organic Chemistry Research

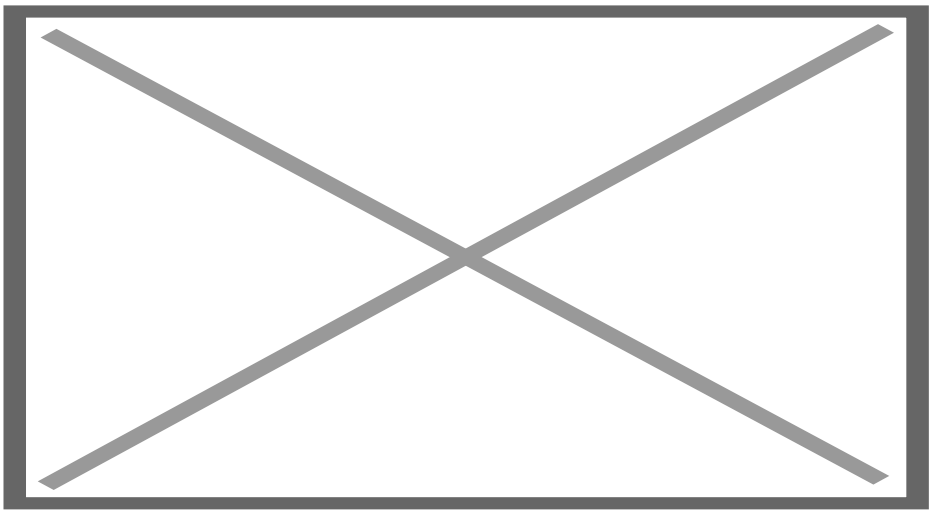
Organic chemistry lies at the heart of recent advances across numerous fields: health, cosmetics, textiles, aerospace, agriculture, and the establishment of new environmental standards. All of these breakthroughs are built upon dynamic and inventive academic and industrial research. The "**Organic Chemistry" M2R program** is designed for students seeking to **acquire advanced theoretical and practical skills**, ranging from mastery of the latest methodological developments in organic synthesis to a broad understanding of its applications, aimed at addressing economic and societal challenges.

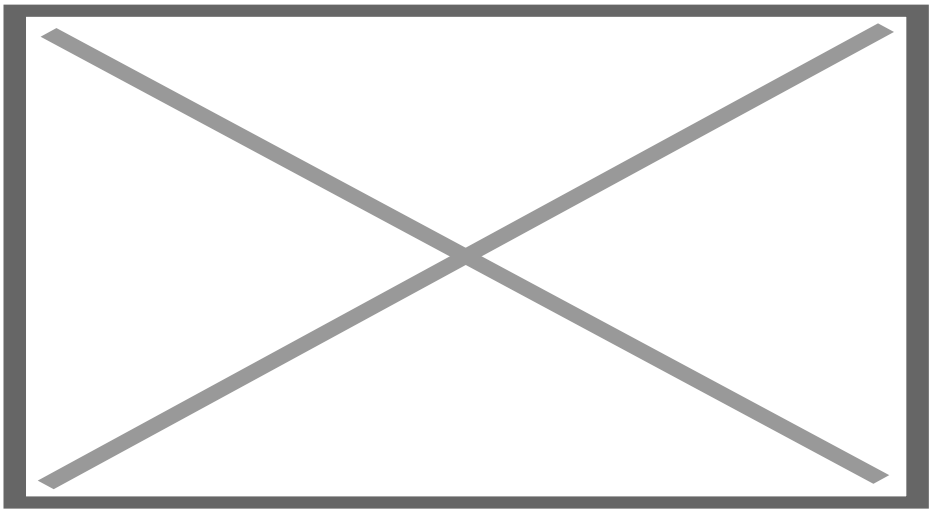
The M2 in Organic Chemistry is structured around three competency blocks, each composed of a specific number of Teaching Units (UE).

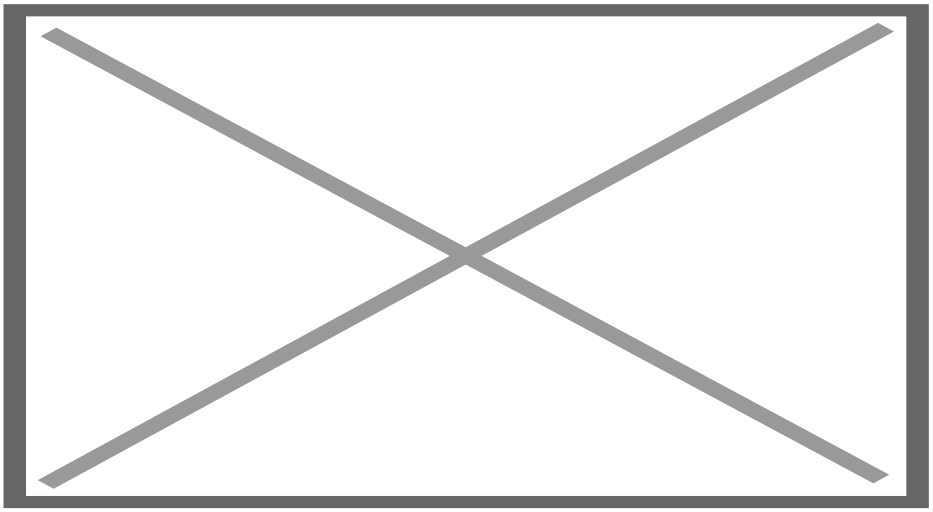
- Competency Block 1: 5 UEs, 6 ECTS each, totaling 30 ECTS
- Competency Block 2: 1 UE of **6 ECTS** and 2 UEs of 2 ECTS each, totaling **10 ECTS**
- Competency Block 3: 1 internship UE, **20 ECTS**

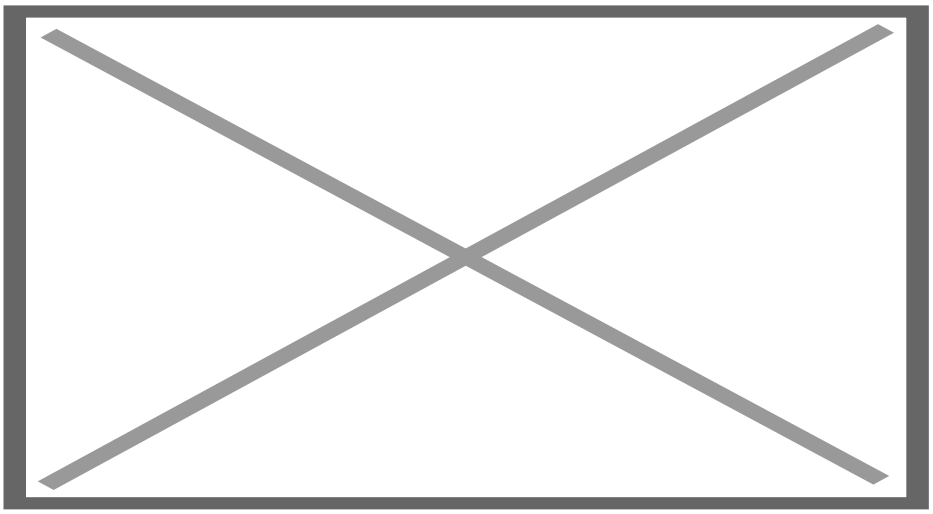
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Preparing for a career as a researcher in fields requiring expertise in organic chemistry

1. Gather and analyze information on a scientific issue by efficiently using research tools and databases, particularly bibliographic resources.
2. Develop a strategy to isolate, identify, design, and analyze new molecules or new synthetic routes to molecules of interest.
3. Apply a scientific approach in organic chemistry by establishing a work plan and organizing time effectively to achieve set objectives.
4. Work in compliance with hygiene and safety regulations, with knowledge of standards and best laboratory practices.

5. Communicate information and results to different audiences, being able to describe a protocol clearly and present results in a structured manner.

Objectives

The Organic Chemistry track trains students in both fundamental and applied research. It offers numerous advantages that provide an exceptional immersion into the contemporary world of Organic Chemistry research:

- Geographical proximity to the teaching team and host laboratories,
- Dynamism and excellence of the research conducted in affiliated laboratories and companies.

This environment allows each student to gain the necessary experience and perspective on the research profession, helping them to consolidate their career project and confirm their choice of a first professional research experience through a doctoral thesis.

Beyond acquiring high-level theoretical knowledge and experimental skills, this program enables each student to develop autonomy and critical thinking (through bibliographic and analytical projects linked to the internship) and to learn how to manage a project within a collaborative framework (through collective work on publications in English and participation in shared Teaching Units with other M2 tracks).

Acquiring this comprehensive set of skills represents a significant asset, placing students in the Paris-Saclay M2R in Organic Chemistry in an excellent position when applying for doctoral thesis funding.

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)
After a Master's or Master's + PhD: researcher or lecturer
After a Master's or Master's + PhD: engineer (research and development, control, production, etc.) in the fields of health, pharmaceuticals, agri-food, biotechnologies, instruments and reagents, cosmetics, pollution control and the environment.
After a Master's or Master's + PhD: engineer (Research & Development, control, production, etc.)

Further Study Opportunities

PhD

Calendar

Start of programme (indicative date)
01/09/2026
End of programme (indicative date)
16/07/2027
Admission

Admission Route

Chemistry

Capacity

Available Places

35

Target Audience and Entry Requirements

The program is open to students who have completed a first year of a Master’s degree in Chemistry (or an equivalent qualification), having followed a curriculum corresponding to the “Organic Chemistry,” “Chemistry-Biology,” or “Pharmaceutical Chemistry” tracks of the Master 1 in Chemistry at Université Paris-Saclay, as well as the Joliot-Curie track at Université Paris-Saclay.

Période(s) de candidature

Inception Platform

From 21/03/2026 to 15/07/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Certificate of French (compulsory for non-French speakers).

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Additional supporting documents

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
UEs de Coeur à choix								
Catalyses Charger le détail	6	Semestre 1	30	9				
Méthodes et stratégies en synthèse totale et asymétrique Charger le détail	6	Semestre 1	30	10				
Molécules et Médicaments: Conception et Developpements Charger le détail	6	Semestre 1	40					
UEs d'ouverture à choix								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Techniques et Stratégies Innovantes en Synthèse Eco-Compatible	6	Semestre 1	40					
Charger le détail								
Chimie Organique des Polymères et Nanochimie Organique	6	Semestre 1	30	10				
Charger le détail								
Radicaux et photons en synthèse organique	6	Semestre 1	30	10				
Charger le détail								
Structures, mécanismes et fonctions des protéines - UPSay	6	Semestre 1	40					
Charger le détail								
Biomolécules : synthèse et propriétés	6	Semestre 1	30	10				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
UEs obligatoires du bloc 2								
Projet bibliographique en anglais	2	Semestre 2		8				
Charger le détail								
Analyse Structurale Appliquée	6	Semestre 1	25.5	25.5				
Charger le détail								
UEs à choix du bloc 2								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Projet analytique	2	Semestre 2	6	9	14			
Charger le détail								
UE libre catalogue S1 et S2	2.5	Semestre 2						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distanc learni cours
Stage	20	Semestre 2							
Charger le détail									

Teaching Location(s)

ORSAY

Contact

- **Vincent GANDON**

  responsable pédagogique

http://www.universite-paris-saclay.fr/formation/master/chimie/m2-chimie-organique