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M2 Biology Agrosciences Plant Sciences

Master's degree
Specialisation Biologie-AgroSciences
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
English
French

The Master's degree in Plant Sciences consists of two sub-tracks:

The Research sub-track is a programme of excellence that trains experts in advanced fundamental knowledge of how plants function and interact with the environment.

The Professional sub-track 'Innovation and Quality in Plant Production' (IQPV) is a programme of excellence that trains experts in crop health and protection, varietal selection, seeds and sustainable agronomy.

The Research sub-track is organised into 8 teaching units:

- 5 fundamental knowledge teaching units (semester 1, 16 ECTS): Plant genomics and breeding, Plant response to their complex environment, Plant epigenetics, Plant cell biology, Metagenomics

-4 teaching units on research projects (semester 1, 14 ECTS): Laboratory rotations, Omics approaches to plant metabolism, Research project, International congress.

A 6-month internship is carried out in a research laboratory (30 ECTS, from January to June).

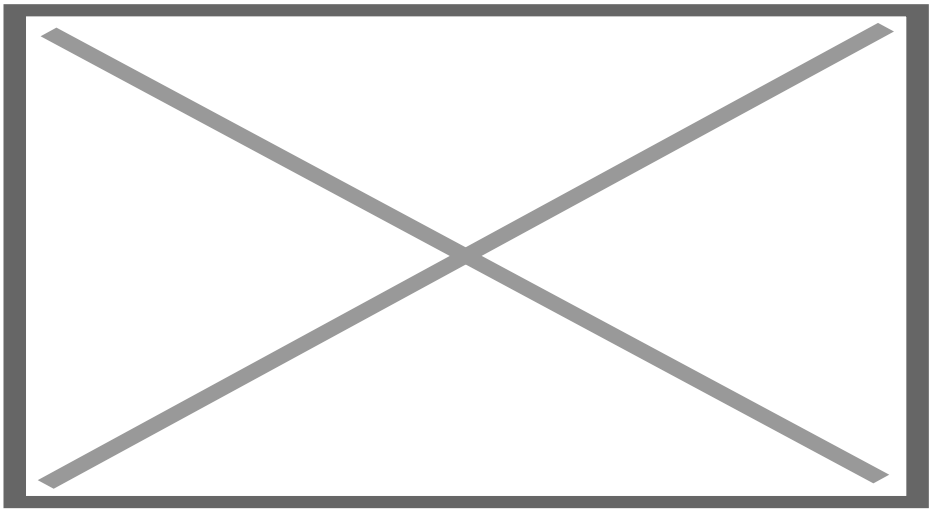
The IQPV sub-track programme is organised into 7 teaching units:

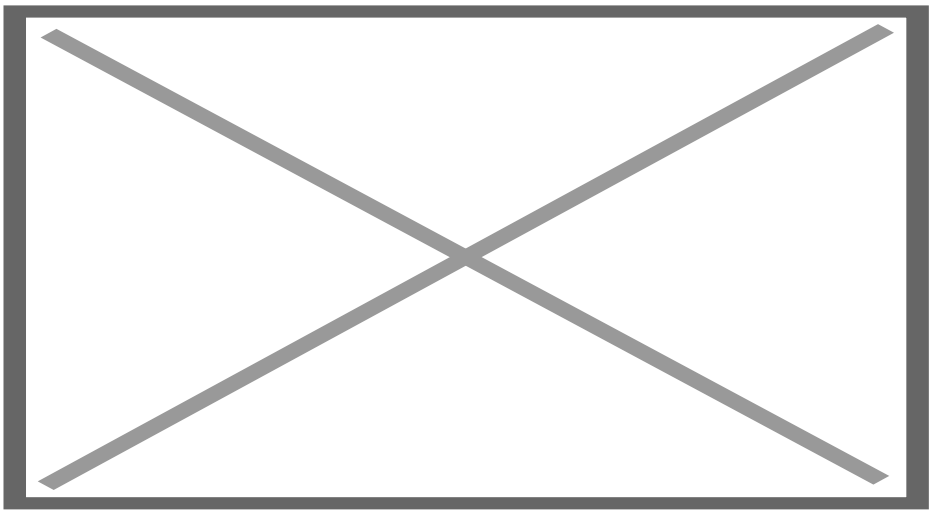
-3 scientific teaching units (semester 1, 15 ECTS): Genomics and plant breeding, Plant health, Agricultural practices and climate change;

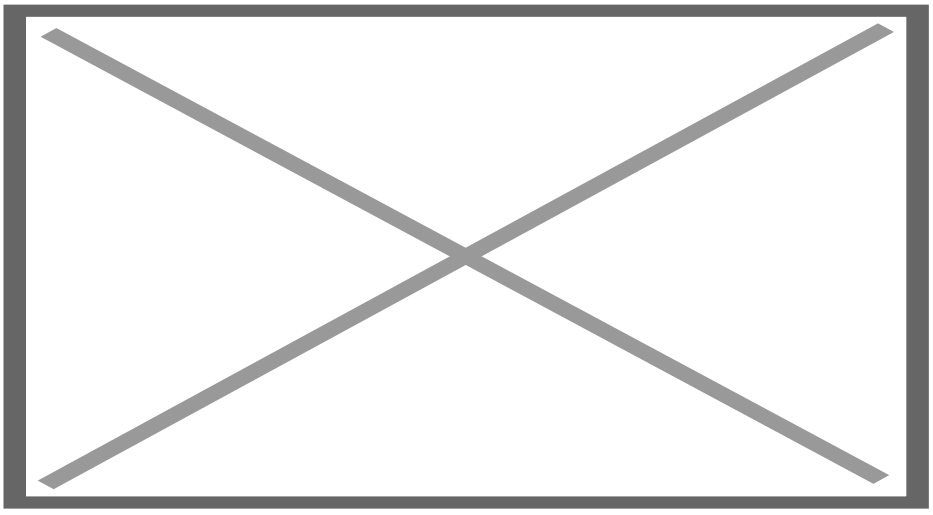
-4 entrepreneurial teaching units (semester 1, 15 ECTS): Market research and marketing, Tools for business development, Approval of plant protection products, Strategic and regulatory monitoring

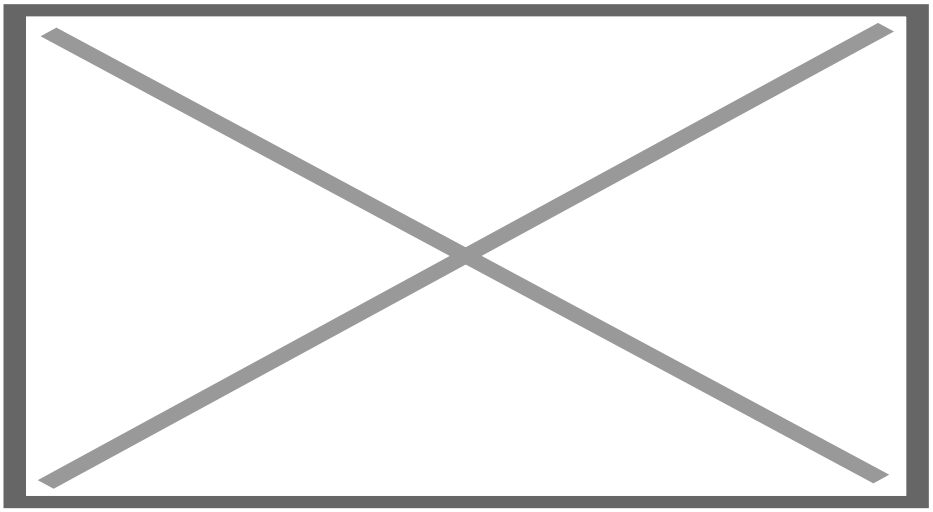
A 6-month end-of-study internship is carried out in a company (30 ECTS, from March to September).

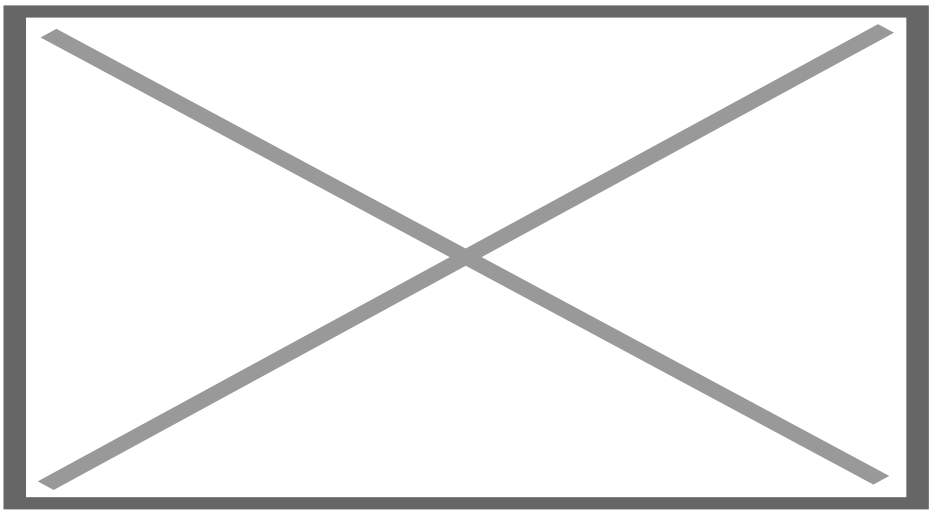
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

At the end of the sub-track research, students will have acquired the following skills:
• Explain and use basic concepts in plant genomics and breeding, plant signalling, plant physiology and metabolism, plant cell biology and plant epigenetics
• Identify and select appropriate scientific or technological approaches to address a biological question in plant sciences
• Gather and summarise literature on a specific subject in plant sciences
• Conceive, plan for and produce a scientific project in plant sciences in a research lab: synthesis of the literature, independent and rigorous organization of lab experiments, analysis of scientific results and reporting (written and oral restitution).

Upon completion of the IQPV Professional sub-track's programme, students will have acquired the following skills:

• Explain and apply, in a professional context, the basic concepts associated with genomics and plant breeding, plant health and innovation in agricultural practices, with a view to setting up plant production projects aimed at helping crops adapt to climate change.

• Identify and select the most relevant scientific and/or technological approaches to address a specific question or issue in plant sciences.

• Compile and synthesise bibliographic and regulatory data on a specific scientific or economic issue in plant sciences, applying a critical eye.

• Design, plan and produce a scientific project in a plant sector company by applying the knowledge acquired in plant sciences, based on an analysis of the scientific literature and by independently and rigorously organising the experimental aspects or field missions, analyses and their synthesis within the allocated time

• Identify the tools necessary for successful professional integration and apply them to best prepare for one's professional project.

Objectives

The Research track is taught entirely in English and aims to train students, through research, to acquire solid expertise in plant sciences and in the mechanisms used by plants to adapt to abiotic and biotic stresses. Graduates continue their studies under doctoral contracts, mainly in public laboratories, but also in private companies. The programme is divided into two parts: courses (September-December), consisting of teaching units and laboratory immersion, and training (January-June), consisting of a six-month internship in a public research laboratory.

The aim of the IQPV professionnal subtrack's programme is to enable students to acquire a solid scientific foundation in fields related to plant production. This knowledge base will enable them to implement a rigorous scientific approach combined with appropriate experimental methods in the context of real-world issues. It will draw on generic knowledge and transfer it to an agricultural/agronomic context in order to improve plant production in a changing environment and under conditions of sustainable agriculture.

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: 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 + PhD: researcher or lecturer
After a Master's or Master's + PhD: engineer (Research & Development, control, production, etc.)
R&D Engineer
R&D Project Manager
R and D Project Manager
Design engineer industry / public research
Academic staff
Research & Development Engineer
Production Engineer
Research or Design Engineer
Design Engineer
Research Engineer
After Master and PhD : reseacher or assistant professor or professor
Head of Missions
Project Manager
Design engineer

Further Study Opportunities

Master of Education and Teaching Professions
PhD
PhD
Master of Biology-Agrosciences
Master of Sciences in biotechnology and management

Calendar

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

Admission

Admission Route

Life Sciences
Life and Earth Sciences
Engineering Sciences

Capacity

Available Places

35

Target Audience and Entry Requirements

Candidates for the training programme must have completed a Master's degree in biology with a solid foundation in plant biology and physiology, genetics and genomics, plant-microorganism interaction biology, and statistics.

Période(s) de candidature

Inception Platform

From 15/02/2026 to 10/06/2026

Supporting documents

Compulsory supporting documents

Copy diplomas.

Copy of identity document.

Motivation letter.

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

Curriculum Vitae.

Additional supporting documents

Letter of recommendation from a trainee.

Certificate of English level.

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

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

Recommendation letters.

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

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	d l
BCC1 - Research Track - Mobilising and producing specialised knowledge and innovative methods in plant sciences	0	2	22,5	7,5					
BCC2 - Research Track - Designing research and development projects in plant sciences	0	2	22,5	7,5					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
BCC3 - Research Track - Managing and implementing a plant science research project in a professional context	0	1	22,5	7,5					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Mobilising and producing specialised knowledge and innovative methods for sustainable plant production	0	3	22,5	7,5					
Mobilising knowledge and tools for integration into the workplace	0	4	22,5	7,5					
Implementing and managing an innovation project in plant production in a company	0	1	22,5	7,5					

Teaching Location(s)

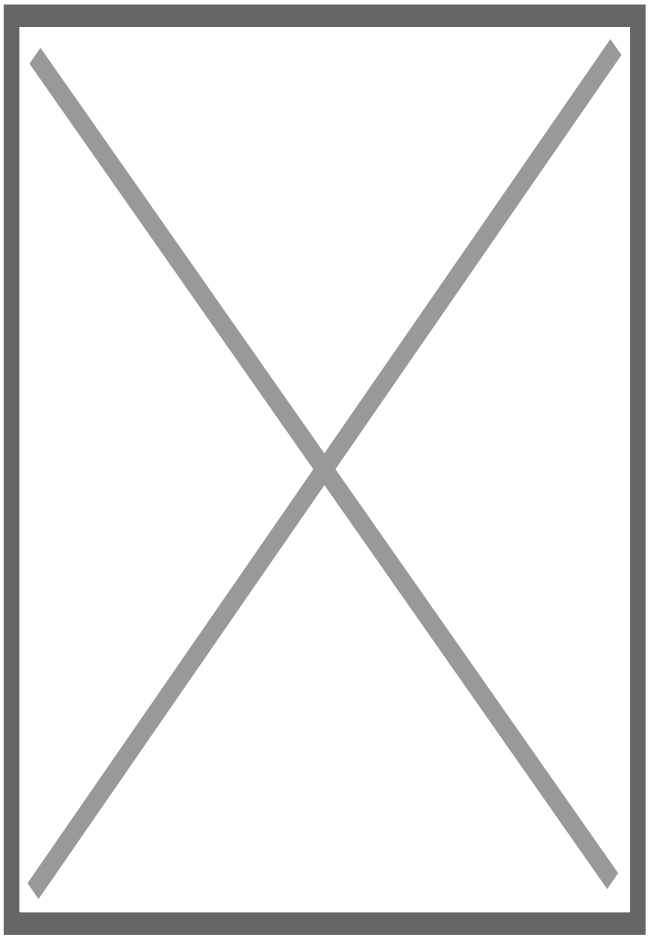
ORSAY
GIF SUR YVETTE
VERSAILLES

Academic Partner(s)

INRAE, CNRS, Université Paris Cité

Training campus

Javascript est requis pour visualiser cette carte.



Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay
Bus 4606 / 4609 / 4611 / 5154
RER B Le guichet
Voir
Student restaurant (CROUS)
Library
Sports facilities
Student residence

Contact

- **Alia DELLAGI**

  Responsable de la mention Biologie, AgroSciences
- **Karine ALIX**

  Responsable du M2 Plant Sciences IQPV
- **Hélène VANACKER**

  Responsable du M2 Plant Sciences IQPV
-

Mathieu JOSSIER

Responsable du M2 Plant Sciences Research Track

Links

Scholarship
http://www.universite-paris-saclay.fr/formation/master/biologie-agrosciences/m2-biologie-agrosciences-plant-sciences