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# M1 Biologie Agrosiences Sciences du végétal- Plant Sciences

Master's degree

Specialisation Biologie-AgroSciences

Language(s) of instruction

English

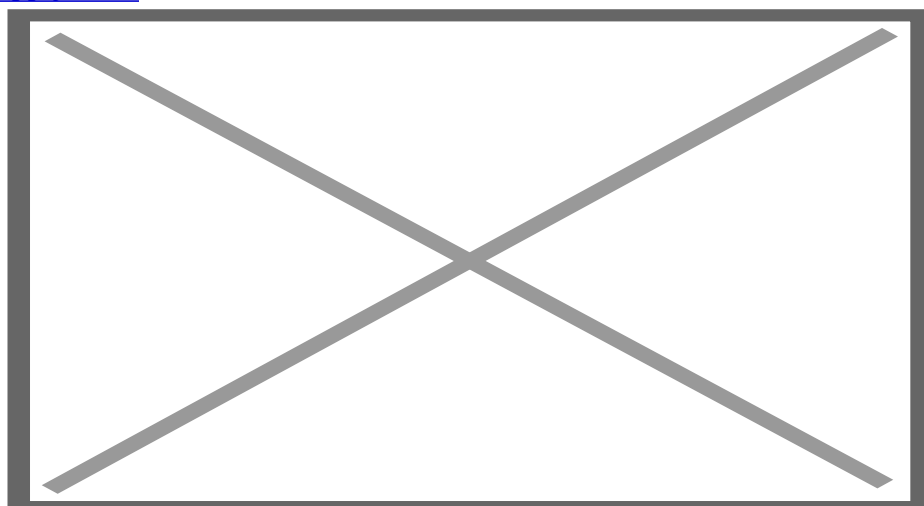
French

- **Be among the pioneers** shaping sustainable and resilient plant systems.
- **Join an elite, international program** fully **taught** in **English** from the first to the second year.
- **Access an outstanding research environment** through the [Saclay Plant Sciences](#) Excellence Network — over **800 leading plant scientists** in one of Europe's largest plant research hubs

The programme is divided into two semesters and comprises four non-compensable blocks: the core curriculum block BCC1- Integrative foundations and methods for animal and plant sciences (17 ECTS); the two Plant Sciences blocks BCC2 and BCC3- Plant sciences : Specialised knowledge and innovative methods for sustainability (16 and 19 ECTS) with compulsory or optional teaching units (six optional sequences); the block dedicated to the compulsory 8-week teaching unit internship BCC4- Implementing a plant science research and innovation project in a professional context (8 ECTS). The Plant Sciences programme offers the option of a full M1 programme in English.

[Télécharger la fiche détaillée](#)

[Apply Now](#)







## Information

- [Overview](#)
- [Application requirements](#)
- [Schedule](#)

Présentation

## Skills

- Understand the major societal and economic issues relating to the use and improvement of cultivated plants.
- To be able to explain current knowledge of how plants function and develop in interaction with their environment.
- Competent in defining and describing the main concepts, methods and technological tools used in integrative biology, in particular omics approaches.
- Capable in analyzing complex data from these technologies and use the associated statistical and bioinformatic tools
- Implement basic techniques in molecular and cellular biology, biochemistry, genetics and plant physiology
- Synthesize information on a scientific topic in the field of plant sciences; communicate it orally and in writing, in French and English, alone or in a group
- Describe, analyze and critique the results of an experiment; design a scientific approach appropriate to a given problem

## Objectives

The M1 Biologie Agrosiences Sciences du végétal/Plant Sciences aims to provide students with in-depth knowledge of how plants function and how they adapt to their environment in order to meet current needs for innovation in plant production. To train the scientists who will meet the new challenges of developing

sustainable agriculture, the M1 Biologie Agrosiences Sciences du végétal/Plant Sciences is based on integrated, interdisciplinary and multi-scale training in plant biology. It benefits from the expertise of a network of 'Saclay Plant Sciences' research laboratories, providing training through research that is unique in the Île-de-France region.

## **Débouchés**

### **Career prospects**

**After a Master's degree: Data scientist**

**After a Master's degree: Research analyst**

**After Master and PhD : reseacher or assistant professor or professor**

**After a Master's + PhD: researcher or lecturer**

**After a Master's or Master's + PhD: researcher or lecturer**

**After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)**

**Research officer**

**Data scientist**

**Data Scientist**

**Design engineer industry / public research**

**Academic staff**

**Design Engineer**

**R&D Engineer**

**R&D Project Manager**

### **Further Study Opportunities**

**Master of Biology-Agrosciences**

**Biology-Agrosciences**

**R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.**

**Data Scientist, Data Analyst, Ingénieur·e en Machine Learning dans des secteurs innovants (tech, finance, santé, énergie, etc.) ;**

**PhD**

**PhD bio**

**Engineering in agriculture and the natural environment**

**PhD**

**PhD thesis**

Admission

## **Admission Route**

Life Sciences

Life and Earth Sciences

Health sciences

## **Capacity**

### **Available Places**

16

## **Target Audience and Entry Requirements**

Bachelor's degree (Biology, Life Sciences, Health Sciences, Life and Earth Sciences, equivalent) with knowledge acquired in the fields of: plant physiology and development, genetics (formal/molecular), genomics, cellular and molecular biology, biostatistics. A professional project in line with the objectives of the course is required. A minimum level of English (European B1) is required, enabling students to understand scientific articles and communicate in research.

## **Période(s) de candidature**

Inception Platform

From 15/01/2026 to 16/03/2026

From 19/06/2026 to 25/06/2026

MonMaster Platform

From February 17th to March 16th, 2026

To find out which platform you should apply through, please see the [Masters' applications and enrolment page](#).

## **Supporting documents**

## **Compulsory supporting documents**

Copy diplomas.

Copy of identity document.

Motivation letter.

TOEIC.

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

Certificate of English level (compulsory for non-English speakers).

English language level certificate B1 (IELTS : score 4/5 ; TOEIC : score 550/760 ; TOEFL IBT : score 42/71 ). In the absence of official proof, level B1 certificate issued by the English teacher or transcript specifying level B1.

Curriculum Vitae.

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

## **Additional supporting documents**

Referring contact information (compulsory for non-international applicants).

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

Level B2 : Non native french speakers, a knowledge certificate issued by the French Embassy or a French language center. Students holding a French diploma or a diploma instructed in French are exempt from that obligation.

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

**BCC1- Integrative foundations and methods for animal and plant sciences**

| Subjects                                                                | ECTS | Semester   | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | di |
|-------------------------------------------------------------------------|------|------------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|----|
| <a href="#">Biodiversity and Genome Evolution</a>                       | 3    | Semester 1 | 9.5     | 15             |                 |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">English courses / Soliya project</a>                        | 2.5  | Semester 1 |         | 21             |                 |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">Epistemology</a>                                            | 2    | Semester 1 | 15      |                |                 |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">Project Adopt a gene (Elective courses A - option 1)</a>    | 3    | Semester 1 | 0       | 0              | 15              |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">Metabolism and Physiology</a>                               | 2.5  | Semester 1 | 9       | 6              |                 |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">Biosphera lecture series</a>                                | 1    | Semester 1 | 6       |                |                 |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">Statistics</a>                                              | 3    | Semester 1 | 10      |                | 11              |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |
| <a href="#">Project Adopt a dataset (Elective courses A - option 2)</a> | 3    | Semestre 1 | 3       |                | 12              |                        |                         |                                |    |
| <a href="#">Charger le détail</a>                                       |      |            |         |                |                 |                        |                         |                                |    |

BCC2- Plant sciences: from specialised knowledge to innovative methods for sustainability

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class |
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|

[Proteins and biotechnologies \(Elective courses D - option 2\)](#)

4 Semester 1 14 16



[Charger le détail](#)  
[Workshop on plant responses to biotic and abiotic stresses \(Elective courses C - option 1\)](#)

4 Semester 1 6 36



[Charger le détail](#)  
[Integrative plant physiology \(Elective courses D - option 1\)](#)

4 Semester 1 20 16



[Charger le détail](#)  
[Plant-microbe interactions \(Elective courses E - option 1\)](#)

4 Semester 1 25.5 1.5 9



[Charger le détail](#)  
[Plant genomics and bioinformatics \(Elective courses B - option 1\)](#)

4 Semestre 1 17 2 12.5



[Charger le détail](#)  
[Fonctionnement de l'entreprise innovante \(FR\) \(Elective courses C - option 2\)](#)

4 Semestre 1 36



[Charger le détail](#)

[System  
Physiology –  
plant and  
animal \(FR\)  
\(Elective  
courses E -  
option 2\)](#)

4 Semester 1 18 14

[Charger le détail  
Systems  
biology I and II  
\(Elective  
courses B -  
option 2\)](#)

4 Semester 1 18 18

[Charger le détail](#)

BCC3- Plant sciences: from molecular innovation to agroecological solutions

| Subjects                                       | ECTS | Semester   | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class |
|------------------------------------------------|------|------------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|
| <a href="#">Plant breeding for agroecology</a> | 4    | Semester 2 | 18      | 6              | 12              |                        |                         |                                |

[Charger le détail  
Physiology of  
nutrition and  
agronomy  
\(Elective  
courses G -  
option 1\)](#)

4 Semester 2 8 7 21

[Charger le détail  
Genome  
engineering  
and RNA  
interference  
\(Elective  
courses F -  
option 1\)](#)

4 Semester 2 8 7 21

[Charger le détail  
Seeds: from  
biology to the  
supply chain  
\(Elective  
courses F -  
option 2\)](#)

4 Semester 2 12 14

[Charger le détail](#)

| Subjects                                                                                     | ECTS | Semester   | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | d |
|----------------------------------------------------------------------------------------------|------|------------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|---|
| <a href="#">Plant cell biology and development</a>                                           | 4    | Semester 2 | 20      | 10             | 6               |                        |                         |                                |   |
| <a href="#">Charger le détail</a>                                                            |      |            |         |                |                 |                        |                         |                                |   |
| <a href="#">Design an experiment</a>                                                         | 2.5  | Semester 2 | 4       | 15             | 6               |                        |                         |                                |   |
| <a href="#">Charger le détail</a>                                                            |      |            |         |                |                 |                        |                         |                                |   |
| <a href="#">Metagenomics and microbial molecular ecology (Elective courses G - option 2)</a> | 4    | Semester 2 | 18      |                | 18              |                        |                         |                                |   |
| <a href="#">Charger le détail</a>                                                            |      |            |         |                |                 |                        |                         |                                |   |

BCC4- Implementing a plant science research and innovation project in a professional context

| Subjects                          | ECTS | Semester   | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distance learning |
|-----------------------------------|------|------------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|-------------------|
| <a href="#">Internship</a>        | 8    | Semester 2 |         | 104            |                 |                        |                         |                                |                   |
| <a href="#">Charger le détail</a> |      |            |         |                |                 |                        |                         |                                |                   |

## Teaching Location(s)

ORSAY  
GIF SUR YVETTE  
PARIS 13  
PALAISEAU  
VERSAILLES

## Contact

- **Karine ALIX**  
Responsable du M2 Plant Sciences IQPV
- **Axel DE ZELICOURT**
-

**Gianluca TEANO**

## **Links**

Scholarship

<http://www.universite-paris-saclay.fr/formation/master/biologie-agrosciences/m1-biologie-agrosciences-sciences-du-vegetal-plant-sciences>