Université Paris-Saclay

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LP1 Biotechnologies pour la santé, l'alimentaire et l'environnement (BSAE)

Licence professionnelle (Vocational undergraduate degree)
Specialisation Bio-industries et biotechnologies
Enrolment type
Formation initiale
Language(s) of instruction
French

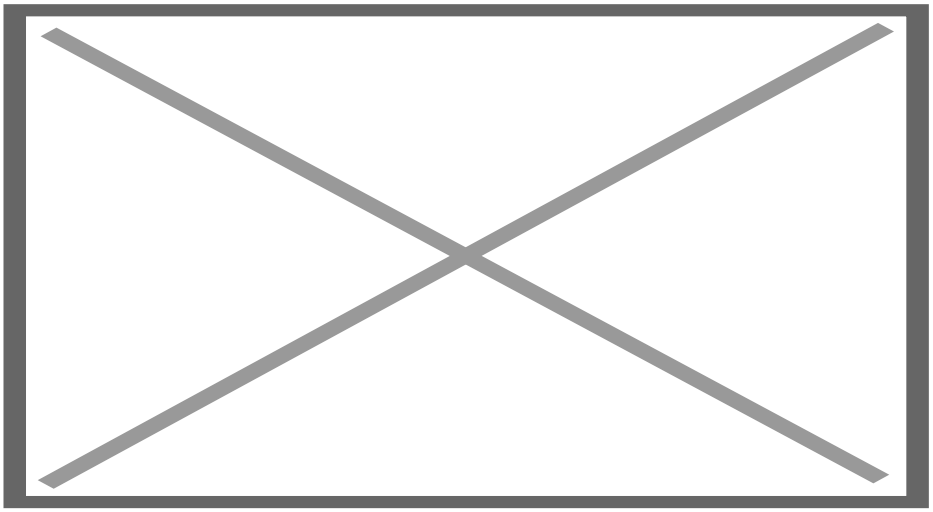
Enroll in a forward-looking program: prepare for a career as a biotechnology laboratory technician with a professional bachelor's degree focused on innovation and cutting-edge technologies in an environment of excellence, with extensive professional immersion and personalized support.

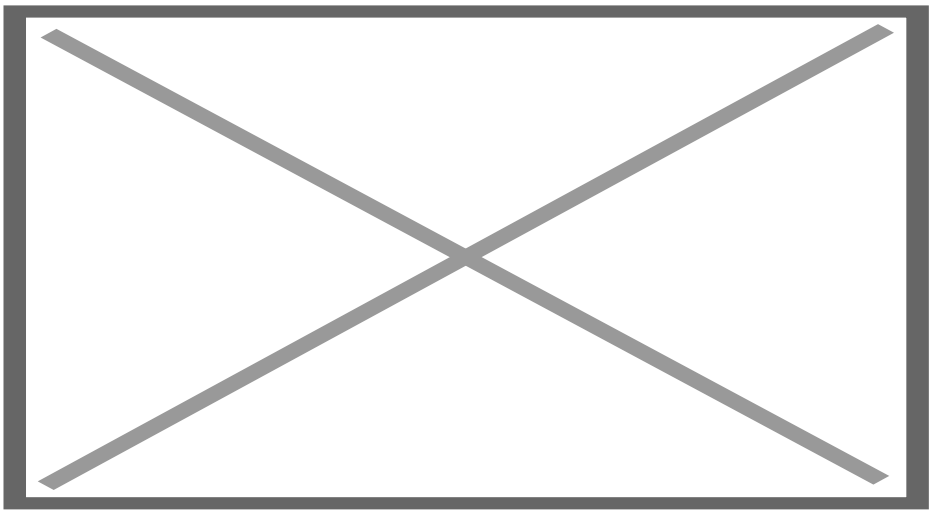
The Professional Bachelor's Degree prepares students for careers as senior laboratory technicians and assistant engineers in the dynamic biotechnology sectors: health, pharmaceuticals, agri-food, and environment. The goal? Rapid and successful entry into the workforce, thanks to practical, targeted training in line with the needs of companies and laboratories in the sector.

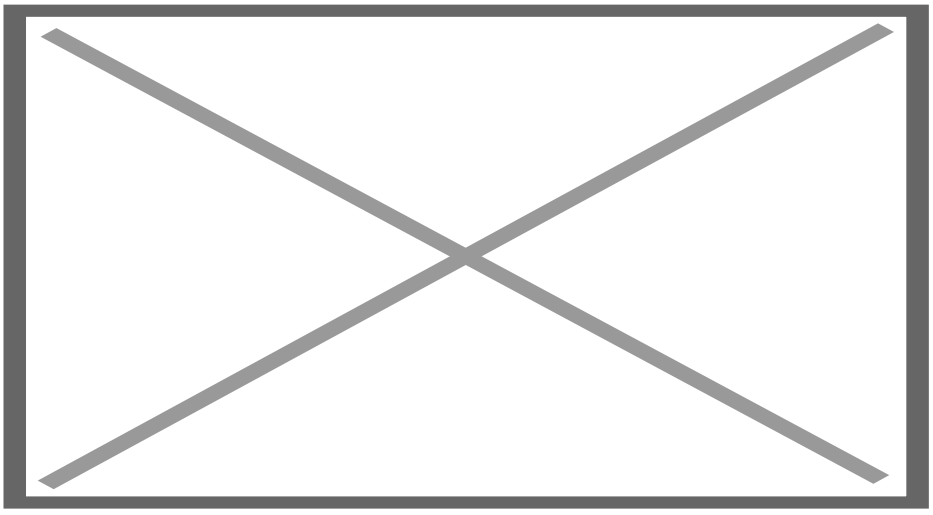
Students with a clear career plan can also consider continuing their studies in a Master's program or engineering school.

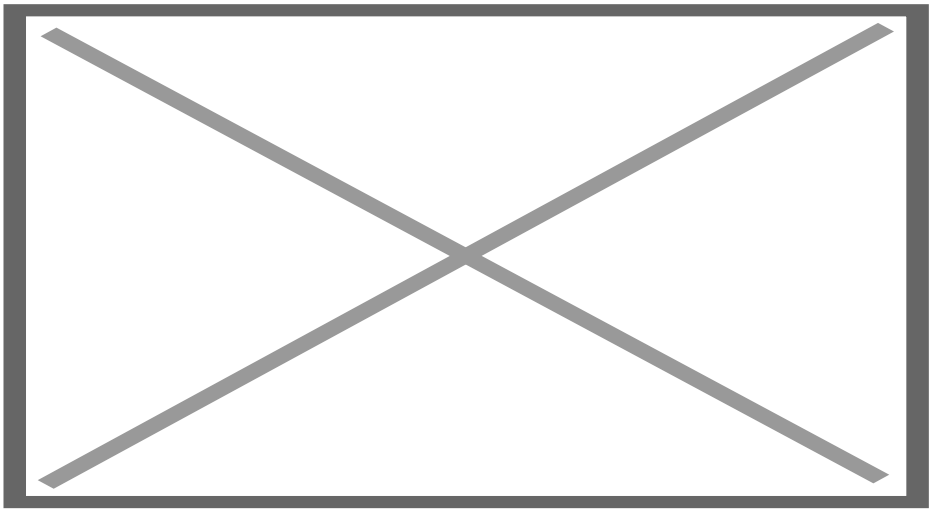
From the first year (LP1), students acquire a solid foundation of knowledge in biology/biotechnology, while developing their professional skills in a small-scale environment conducive to exchange and progress. Each student receives personalized support to promote their success.

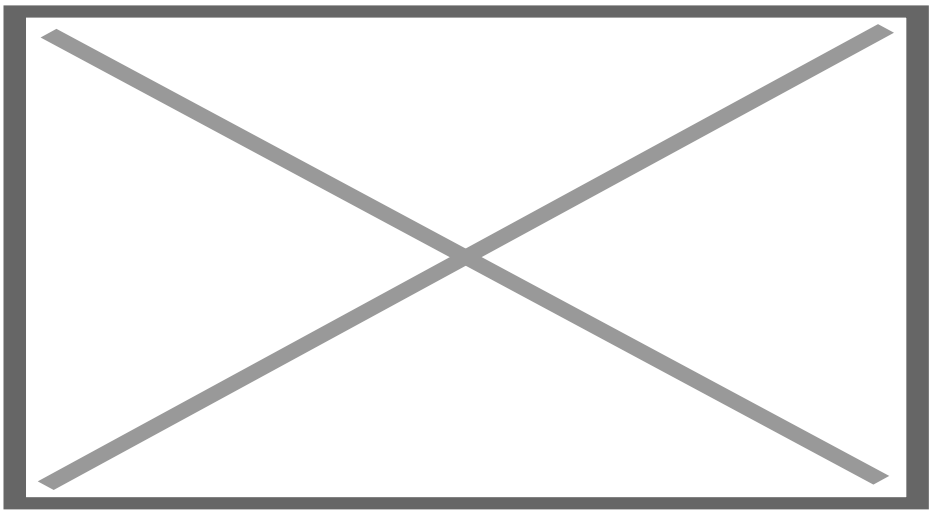
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

At the end of the LP1, students will be able to:

- Explain an experimental protocol within the framework of a scientific approach in biotechnology
- Follow an experimental protocol and describe the results
- Work in a professional environment

Objectives

The aim is to train students for careers as assistant engineers and senior laboratory technicians in various fields of biology. To fulfil their roles, graduates must have acquired a solid knowledge of the fundamental disciplines of biology. In addition, introductory courses are designed to enable them to enter the world of work in the best possible conditions. In the first year of the Professional Bachelor's Degree (LP1), students will take courses in fundamental and applied biology, supplemented by courses in chemistry and mathematics applied to biology, in order to acquire a solid foundation on which to build in the second (LP2) and third (LP3) years of the Professional Bachelor's Degree. The cross-disciplinary taught subjects (English, work and scientific methodologies, professional integration techniques, oral and written communication, knowledge of business and bio-industries) will give students the opportunity to develop and refine their personal and professional project (PPP). A 7- to 8-week internship will also allow students to gain professional experience and skills that will facilitate obtaining an apprenticeship contract in LP2.

Débouchés

Career prospects

Sectors of activity: fundamental or applied research in Biology, Health or Ecology in academia or the private sector
Fields: health, pharmaceuticals, agri-food, biotechnologies, instruments and reagents, cosmetics, pollution control and the environment.
Production Technician
Quality Control / Inspection Technician
Quality Process Technician
Product Development Technician
Research professions

Further Study Opportunities

Master of Biology-Agrosciences
Master of Molecular and Cellular Biology
Engineering school

Admission

Admission Route

Mathematics
Physics, Chemistry

Life Sciences
Life and Earth Sciences
Health sciences
Science and Technology

Capacity

Available Places

20

Target Audience and Entry Requirements

The LP1 is aimed at students who hold a general or technological baccalaureate (or equivalent diploma) with a focus on science, who are motivated by biology/biotechnology, and who are ready to commit to a professional degree program leading to a bachelor's degree.

A set of general, scientific, and technical skills is desirable to promote success in the program. It is not necessary to have mastered all of these skills at the start of the program, but candidates must demonstrate a motivation to develop them throughout the course:

• Gradually adopt a professional attitude suited to the demands of academia and the business world

• Be able to get involved, organize, and manage your work independently

• Work in a team and integrate into collaborative projects

• Demonstrate curiosity, rigor, perseverance, and practical sense

Période(s) de candidature

ParcourSup Platform

From January 19th to March 12th, 2026

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Biologie végétale et des microorganismes Charger le détail	5.5	Semestre 1	12.5	12.5	35			
Biochimie et génétique Charger le détail	6.5	Semestre 1	13	12	37			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Biologie cellulaire et animale	4.5	Semestre 2	10.5	15	21			
Charger le détail								
Biologie moléculaire	3.5	Semestre 2	9.5	15	11			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Compétences personnelles et professionnelles	7	Semestre 1	39	60				
Charger le détail								
Anglais	3	Semestre 2		28				
Charger le détail								
Projets en équipe	4	Semestre 2	0	10	6			
Charger le détail								
Stage	7	Semestre 2						
Charger le détail								
Développement soutenable	0	Semestre 1	1.5	4.5	4			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Outils en biologie 1	9	Semestre 1	15	35.5	48				
Charger le détail									
Outils en biologie 2	7	Semestre 2	9.5	23	32.5				
Charger le détail									
Bioproduction et contrôle qualité	3	Semestre 2	1.5	23					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l

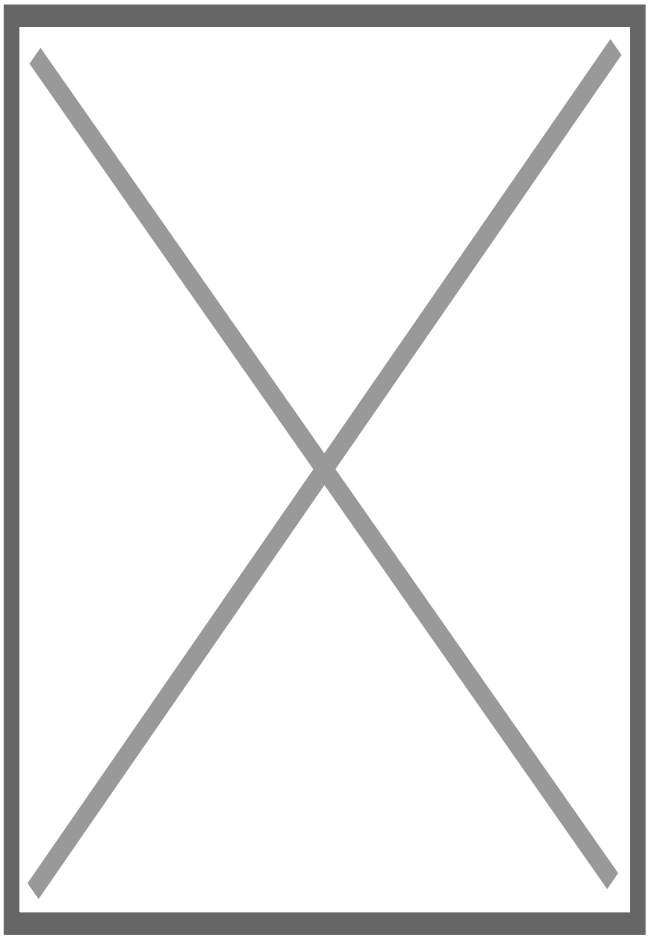
Charger le détail

Teaching Location(s)

ORSAY

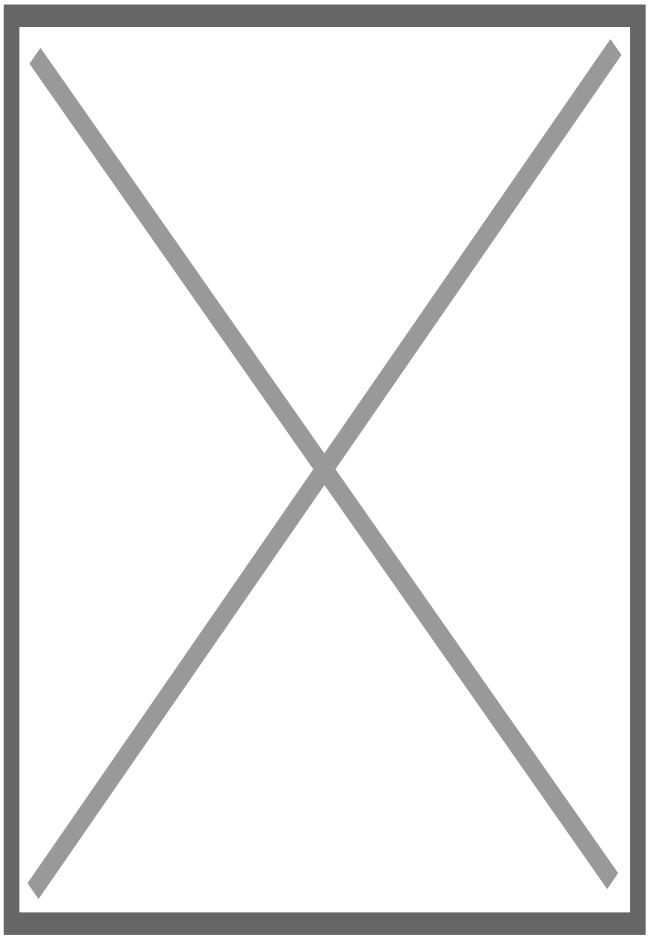
Training campus

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Orsay Bures

Orsay / Bures-sur-Yvette
Bus 4607, 4626
RER B Orsay ville ou Bures-sur-Yvette
Voir
Library
Community center



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

- **Esma Bentchikou et Marion Babot**

  Responsables d'année

http://www.jm.universite-paris-saclay.fr/formation/licence-professionnelle/bio-industries-et-biotechnologies/lp1-biotechnologies-pour-la-sante-lalimentaire-et-lenvironnement-bsae