Université Paris-Saclay

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LP3 Biotechnologies pour la santé, l'alimentaire et l'environnement (BSAE)

Licence professionnelle (Vocational undergraduate degree)
Specialisation Bio-industries et biotechnologies
Enrolment type
Formation initiale
Contrat de professionnalisation
Formation en apprentissage
Formation continue
Language(s) of instruction
French

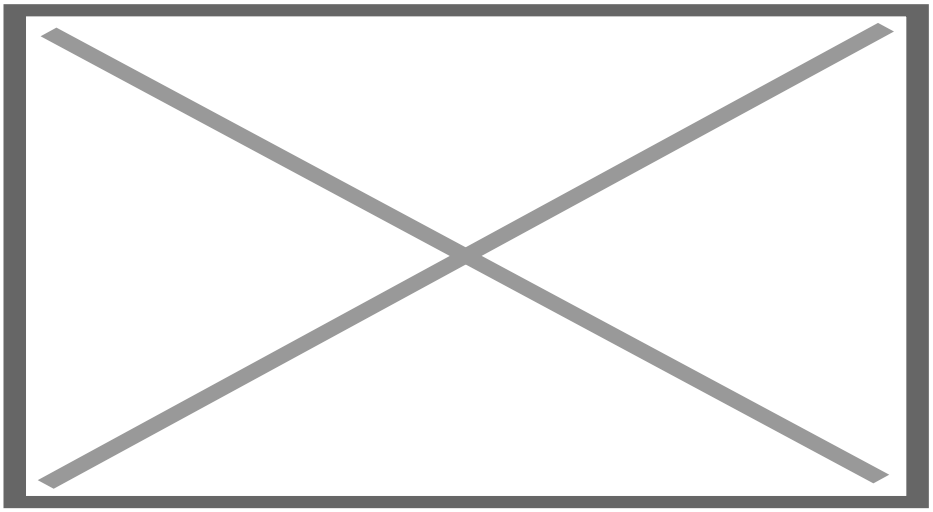
Enroll in a forward-looking program: prepare for a career as a biotechnology laboratory technician with a professional bachelor's degree focused on innovation and cutting-edge technologies in an environment of excellence, with extensive professional immersion and personalized support.

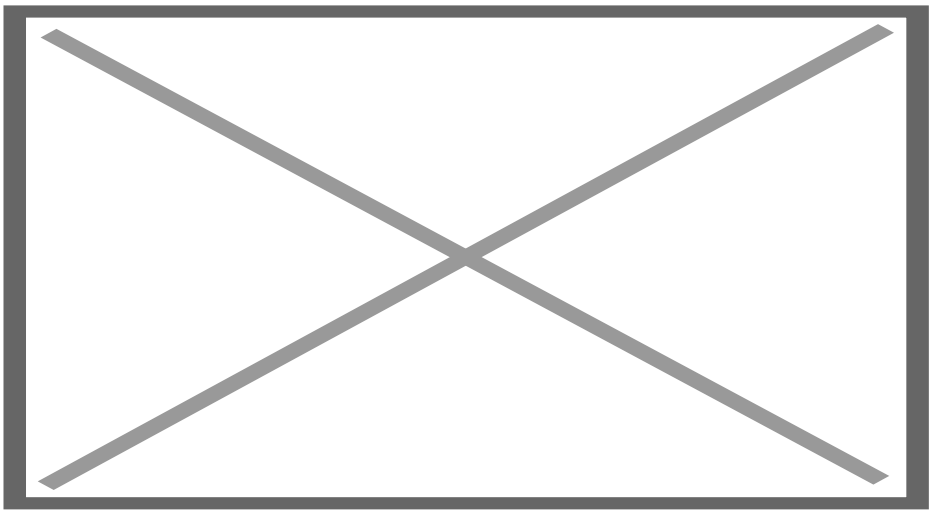
The Professional Bachelor's Degree prepares students for careers as senior laboratory technicians and assistant engineers in the dynamic biotechnology sectors: health, pharmaceuticals, agri-food, and environment. The goal? Rapid and successful entry into the workforce, thanks to practical, targeted training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

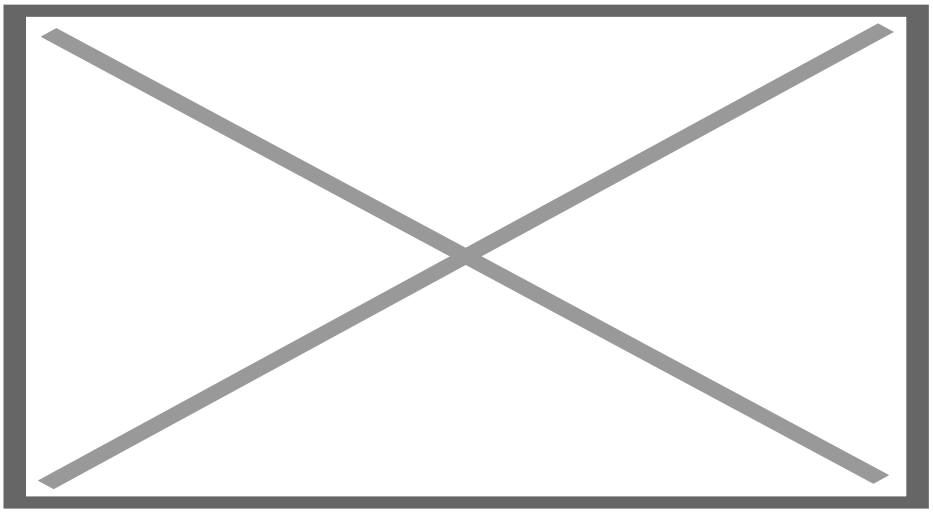
Students with a clear career plan can also consider continuing their studies in a Master's program or engineering school.

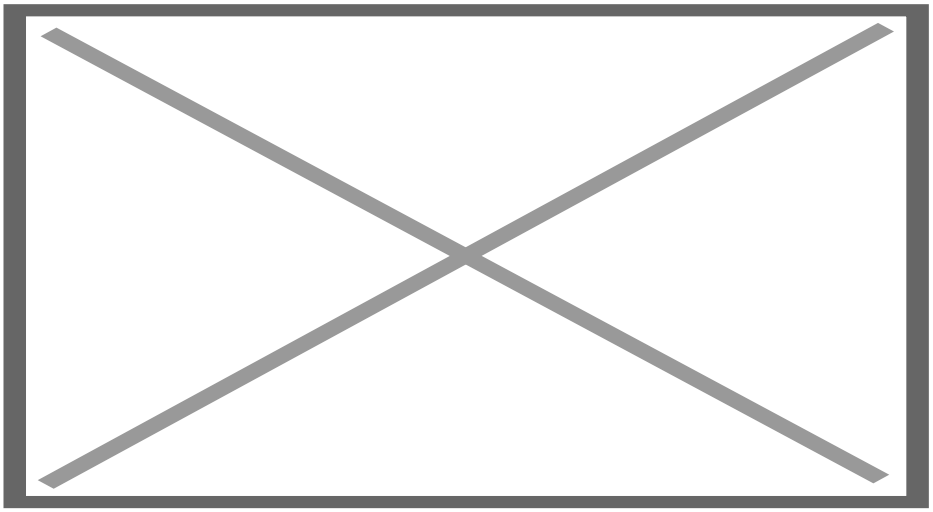
In their third year (LP3), students become apprentices. They strengthen a solid foundation of knowledge in biology/biotechnology while developing their professional skills at university and in the laboratory as part of their apprenticeship contract. Each student receives personalized support, promoting their success.

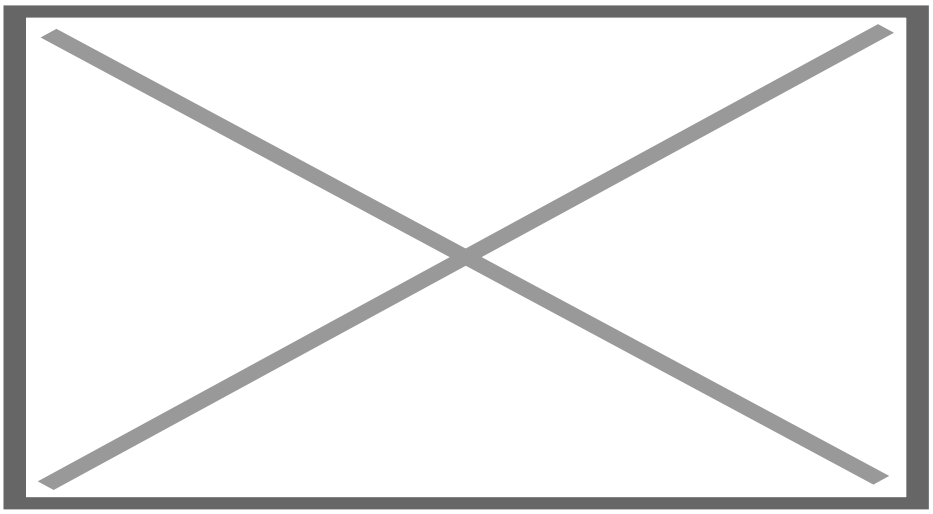
Télécharger la fiche détaillée











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Upon completion of the course, graduates will be able to:

Competency 1: Design an experiment as part of a scientific approach to biotechnology. Graduates will have learnt how to utilise living organisms or their components in research, development, bioproduction and quality control.

Competency 2: Carry out an experiment and interpret the results. Graduates will be able to:
• master good laboratory practice
• implement a protocol

• collect, organise and validate experimental data
• analyse experimental results using basic statistical methods
• interpret results, suggest improvements where necessary, and situate their results within the context of previous and future work

Competency 3: Operate in a professional environment. The graduate will have developed personal and professional skills and will be able to

• successfully enter the workforce
• understand the diversity of the professional world
• find their place within the host organisation
• understand the rights and responsibilities of employees
• organise their work both within a team and independently, taking constraints into account
• communicate appropriately with their colleagues, using a variety of media

Objectives

The objective is to train students for the professions of assistant engineer and senior laboratory technician, in different sectors of biology. To fulfill their missions, graduates must have acquired solid knowledge in the fundamental disciplines of biology. In addition, cross-disciplinary courses must allow them to integrate the world of work in the best conditions. In continuity with the first year of the Professional Bachelor’s degree, in LP2, students will follow courses in fundamental and applied biology, bio-production and quality control, supplemented by courses in chemistry applied to biology in order to acquire a solid training for the third year (LP3). The cross-disciplinary courses (english, scientific methodology, statistics, oral and written communications, knowledge of business and bio-industries) will give the student the opportunity to build and refine their personal and professional project (PPP). The long apprenticeship period (8 months) will also allow the student to acquire professional experience and skills which will facilitate their continuation in LP3 and their professional integration.

Débouchés

Career prospects

Production Technician
Quality Control / Inspection Technician
Quality Process Technician
Product Development Technician
Research technician

Further Study Opportunities

Master of Biology-Agrosciences
Master of Molecular and Cellular Biology
Master of Pharmaceutical and Health Products Sciences
Engineering school
Master of Biology-Health

Calendar

Start of programme (indicative date)
31/08/2026
End of programme (indicative date)
03/09/2027
Admission

Admission Route

Life Sciences

Capacity

Available Places

40

Target Audience and Entry Requirements

Second-year students enrolled on a Bachelor’s degree in Life Sciences or equivalent, who have completed 120 ECTS credits and wish to enter the workforce after completing their third year of study
People returning to education and those seeking accreditation of prior learning.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Remise à niveau Charger le détail	0	Semestre 1		18					
Génétique et Biologie Moléculaire et cellulaire Charger le détail	5.5	Semestre 1	27	35					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d le
Travaux pratiques en R et D et outils numériques	5.5	Semestre 1		15	52				
Charger le détail									
Contrôle qualité et Microbiologie	4	Semestre 1	12	16	18				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d le
Biochimie-Immunologie-Biologie cellulaire	7	Semestre 2	18	39	12				
Charger le détail									
Bioproduction	8	Semestre 2	22.5	15	50				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Anglais - Intégration au monde professionnel	5	Semestre 2	34	24	30			
Charger le détail								
Développement des compétences personnelles	3	Semestre 1	21					
Charger le détail								
Conduite d’un projet en équipe 1	3	Semestre 1						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Conduite d'un projet en équipe 2	4	Semestre 2			30			
Charger le détail								
Immersion professionnelle 1	6	Semestre 1						
Charger le détail								
Immersion professionnelle 2	9	Semestre 2						
Charger le détail								

Teaching Location(s)

ORSAY

Training campus

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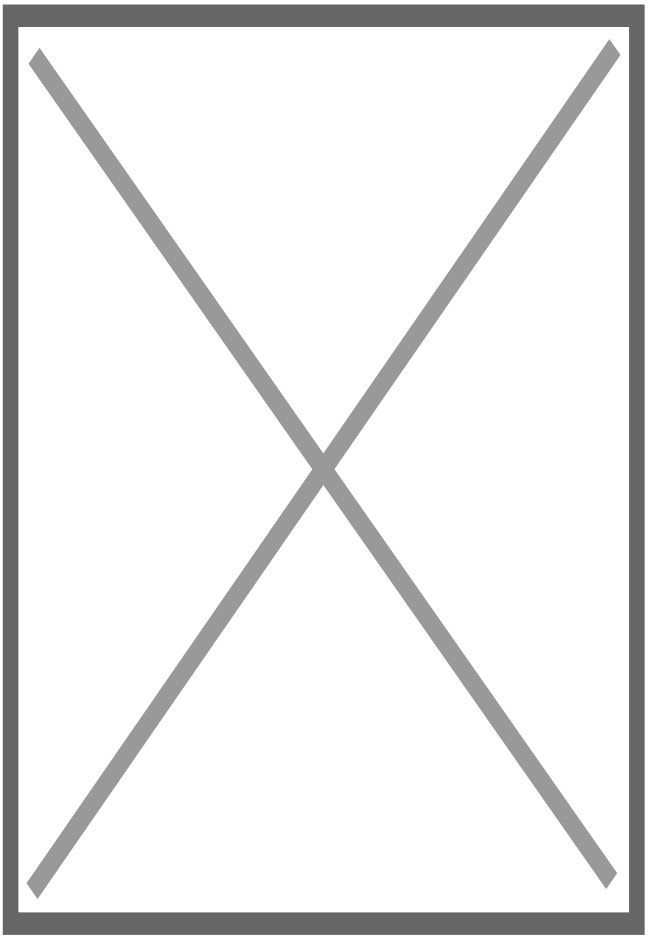
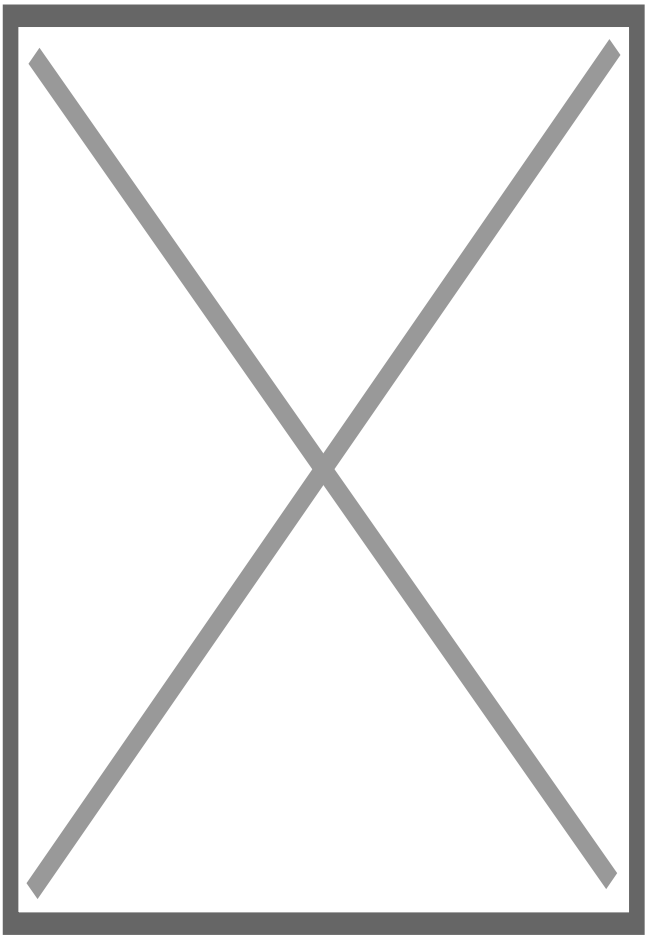


Orsay Bures

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

- **Emmanuelle DARBON et Aurore GORLAS**

  Responsables de formation

http://www.medecine.universite-paris-saclay.fr/formation/licence-professionnelle/bio-industries-et-biotechnologies/lp3-biotechnologies-pour-la-sante-lalimentaire-et-lenvironnement-bsae