

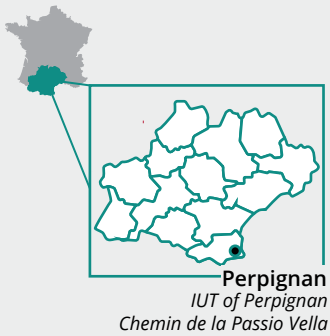


BACHELOR'S DEGREE
 ISCED LEVEL 6

BUT : BACHELOR OF TECHNICAL AND APPLIED STUDIES

Biological Engineering - GB Agronomy Course

LOCALISATION



RECRUITMENT

ENTRY REQUIREMENTS

- Hold one of the following options:
 - *General Baccalaureate* (recommended specialties: Life and Earth Sciences (SVT), Physics-Chemistry, Mathematics, or Biology-Ecology)
 - *Technological Baccalaureate* (preferably Laboratory Science and Technology (STL) or Agronomy and Life Sciences and Technologies (STAV))
 - *University Entrance Diploma* (Diploma of Access to Higher Education (DAEU))
- Any qualification deemed equivalent by the academic committee. Also accessible through VAP (Validation of Professional Experience) after review by the academic committee.

ADMISSION PROCEDURES

Applications are selected based on a review of the applicant's file.

BUT 1 via Parcoursup
<https://www.parcoursup.fr>

BUT 2 and BUT 3 via eCandidat :
<https://candidatures.univ-perp.fr>

An interview may be required by the academic committee.

Program Accessibility Options:

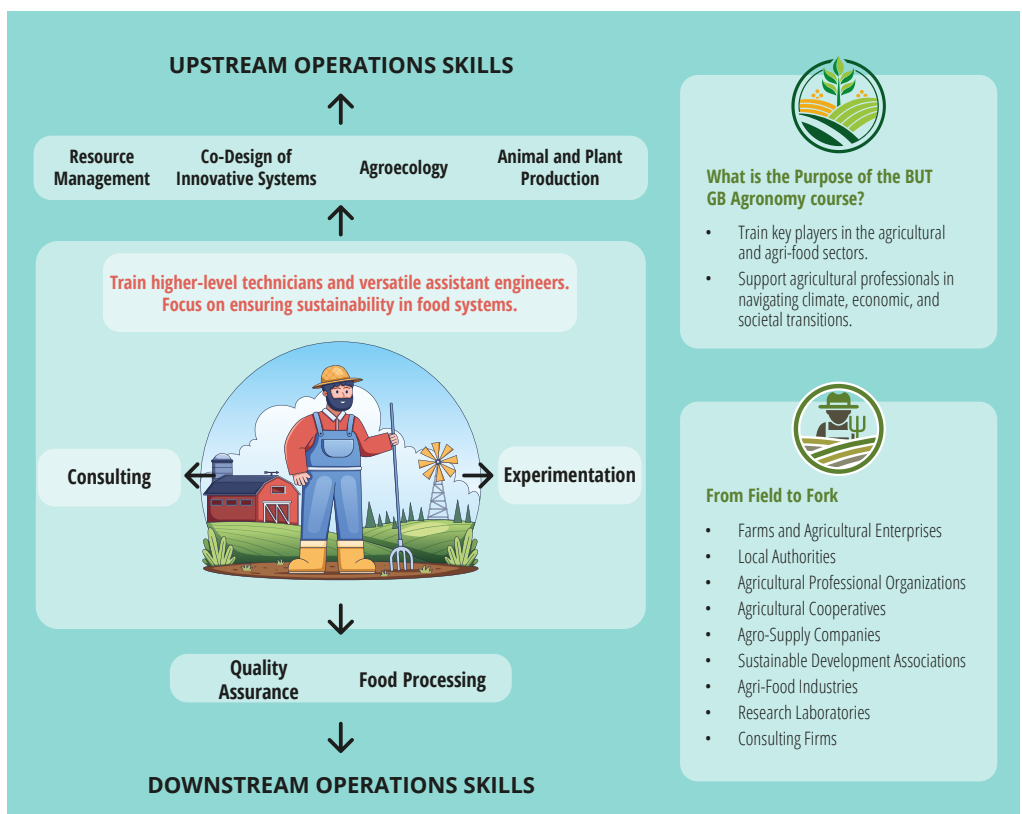
- Initial Education
- Work-Study Program (Alternance)
- Continuing Education starting from year 3 (BUT 3)

OBJECTIVES

This program aims to train versatile and autonomous technicians and assistant engineers who are equipped to sustainably manage food resource production and thrive in diverse agri-food sectors. These sectors include crop cultivation, livestock breeding, agronomy, food processing, plant pathology, sustainable development, environmental management, and research.

Graduates will play a key role in the research and development of innovative products and the design of new production techniques. They may contribute to enhancing the quality of raw materials for processing or participate in the development of rural and peri-urban areas. Additionally, they may pursue careers in technical advising, quality improvement, or technical sales.

PROGRAM OVERVIEW





TARGETED SKILLS

Core Curriculum of the Bachelor of Technology in Agronomy (BUT GB)

	KEY SKILLS	MAIN SUBJECTS
2 FUNDAMENTAL SKILLS	Conduct Biological Analyses	<ul style="list-style-type: none"> Chemistry /Biochemistry Microbiology Cell Biology Animal and Plant Biology and Physiology Mathematics / Physics Communication /English / Portfolio
	Experiment in Biological Engineering	

Specialization: Agronomy

	KEY SKILLS	MAIN SUBJECTS
SPECIFIC COMPETENCIES	Comprendre, Conseiller et Innover dans les filières agrialimentaires	<ul style="list-style-type: none"> Ecosystem and Functional Ecology Land Management Mapping / GIS (Geographic Information Systems) Molecular Engineering Genetic Improvement Animal and Plant Production Management Regulations, Quality, and Safety Phytosanitary Treatments Food Processing and Enhancement Oenology / Sensory Analysis Sustainable Development

PROGRAM STRUCTURE



Duration: Three years

Total hours: 2600 hours

Internships: Year 1: 4 weeks; Year 2: 8 weeks (with the possibility of an international internship starting from BUT Year 2); Year 3: 14 weeks

Language Instruction: English (100 hours over 3 years)

Supervised Projects: 600 hours

Credits : 180 ECTS

PROGRAM HIGHLIGHTS

- **Unique Facility:** The only University Institute of Technology (IUT) with a 3-hectare agricultural site offering multiple certified organic productions (AB Label) including : *Rabbit farming, Poultry farming, Olive oil production, Almond farming and Viticulture and Winemaking*
- **Student-Centered Production:** Students produce and sell their own wine, olive oil, and almonds.
- **Industry Collaboration:** Practical projects closely linked with the professional environment.

PRACTICAL INFORMATION

ACADEMIC CONTACTS

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IUT PERPIGNAN

<https://iut.univ-perp.fr/>

CONTACT SFCA (Continuous Education)

sfc@univ-perp.fr

WHAT'S NEXT?

Career Opportunities

Graduates can pursue careers in various sectors, including:

- Local authorities and institutional organizations, Consulting firms, Agricultural and biotechnology companies, Seed companies, Research laboratories and Environmental protection associations.

Roles include:

- Managing experimental trials (in labs, greenhouses, or open fields), Developing new products (e.g., new plant varieties, phytosanitary, or veterinary products), Innovating with new production techniques (e.g., in vitro cultivation) and improving production care practices

Further Studies

While the primary goal of the Bachelor's degree is professional integration (as outlined in the official guidelines), graduates can also pursue:

- Professional and academic Bachelor's degrees and Entry into engineering schools or veterinary schools



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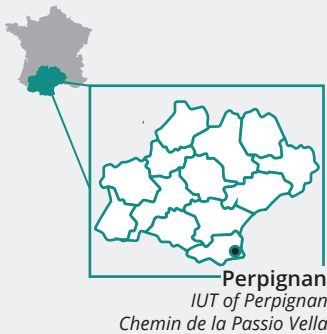


BACHELOR'S DEGREE
 ISCED LEVEL 6

BUT : BACHELOR OF TECHNICAL AND APPLIED STUDIES

Biological Engineering - GB
 Environmental Sciences and Ecotechnologies course (SEE)

LOCALISATION



RECRUITMENT

ENTRY REQUIREMENTS

- Hold one of the following options:
 - *General Baccaulaureate* (recommended specialties: Life and Earth Sciences (SVT), Physics-Chemistry, Mathematics, or Biology-Ecology)
 - *Technological Baccaulaureate* (preferably Laboratory Science and Technology (STL) or Agronomy and Life Sciences and Technologies (STAV))
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ADMISSION PROCEDURES

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An interview may be required by the academic committee.

Program Accessibility Options:

- Initial Education
- Work-Study Program (Alternance)
- Continuing Education from BUT 3

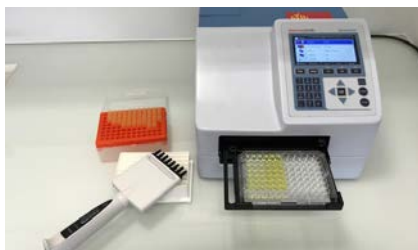
OBJECTIVES

The Bachelor of Technology in Biological Engineering, with a specialization in Environmental Sciences and Ecotechnologies (SEE), prepares future graduates to:

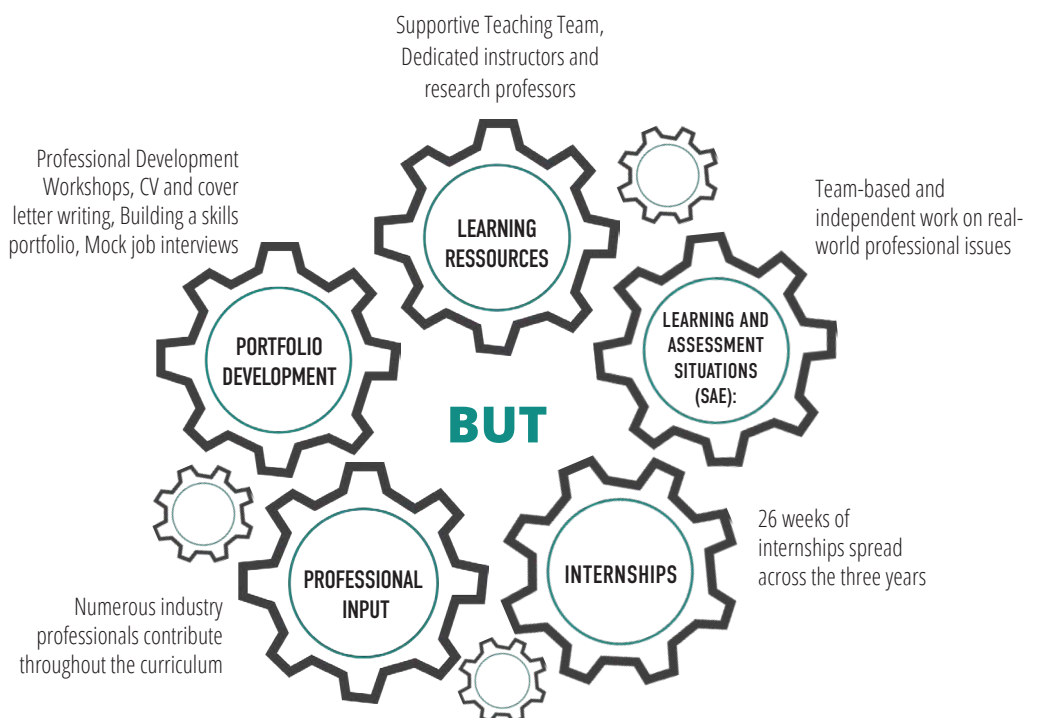
- Manage natural and human-impacted environments.
- Master pollution treatment techniques (drinking and wastewater treatment, waste management, soil remediation, etc.).
- Implement circular economy tools on a territorial scale.

This program equips students to play an active role in environmental preservation and the ecological transition in the near future.

PROGRAM OVERVIEW



This program ensures a balance between acquiring theoretical knowledge and developing technical skills, fostering adaptability and offering diverse career opportunities.





TARGETED SKILLS

Core Curriculum of the Bachelor of Technology in Biological Engineering (BUT GB)

	KEY SKILLS	MAIN SUBJECTS
2 FUNDAMENTAL SKILLS	Conduct Biological Analyses (1st and 2nd year only)	<ul style="list-style-type: none"> • Chemistry /Biochemistry • Microbiology • Cell Biology • Animal and Plant • Biology and Physiology • Mathematics / Physics • Communication /English / Portfolio
	Experiment in Biological Engineering	

Specialization: Environmental Sciences and Ecotechnologies (SEE)

	KEY SKILLS	MAIN SUBJECTS
3 SPECIFIC SKILLS	Managing natural and anthropized environments	<ul style="list-style-type: none"> • Study of Biodiversity • Study of Biological, Chemical, and Physical Pollution • Ecology / Environmental Management • Ecotoxicology • Geosciences / Pedology / Hydrogeology • Cartography / GIS (Geographic Information Systems) • Water, Soil, and Air Treatment • Waste Management Systems • Challenges of Ecological Transition / Sustainable Development / Circular Economy
	Pollution Management	
	Implementing Circular Economy Strategies (from the 2nd year onward)	

PROGRAM STRUCTURE



Duration: Three years

Total hours: 2600 hours

Internships (including options for international placements): Year 1 (BUT 1): four weeks; Year 2 (BUT 2): eight weeks (with the possibility of an international internship); Year 3 (BUT 3): 14 weeks

Language Instruction: English (100 hours over three years)

Supervised Projects: 600 hours

Credits : 180 ECTS

PROGRAM HIGHLIGHTS

- Mentored Projects & SAEs supervised by professionals (e.g., territorial authorities, nature reserves, river syndicates, ecological associations).
- Numerous Outdoor Practical Sessions to learn sampling techniques, biodiversity studies, and management plan development.
- Hands-On Fieldwork in environmental projects (e.g., plant engineering, temporary ponds).
- Site Visits to key infrastructure and facilities such as : Wastewater treatment plants, Incinerators, Methanizers, Sorting centers, Industrial sites classified under ICPE regulations.

PRACTICAL INFORMATION

ACADEMIC CONTACTS

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<https://iut.univ-perp.fr/>

CONTACT SFCA (Continuous Education)

sfc@univ-perp.fr

WHAT'S NEXT?

Career Opportunities

The BUT-GB-SEE program qualifies graduates to apply for positions such as senior technicians, assistant engineers, or environmental project managers in the following areas: collectivités (communautés de communes, syndicats...)

- Local Authorities: (e.g., municipal communities, public agencies)
- Institutional Organizations: (e.g., DREAL, OFB, ARS) : DREAL: Regional Directorate for Environment, Planning, and Housing; OFB: French Biodiversity Office and ARS: Regional Health Agency
- Environmental Sector Companies: (e.g., consultancy firms, treatment plants)
- Analytical or Research Laboratories
- Environmental Protection Associations

Further Studies

The BUT-GB-SEE also offers pathways for further education, including: Bachelor's Degree (L3), Master's Programs, and Engineering Schools in environmental fields.



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