

## University Bachelor of Technology (B.U.T.)

# Biological Engineering (GB)

The **University Bachelor of Technology in Biological Engineering** is a three-year qualified technician training course. Graduates will be able to carry out analyses, process data, take part in research activities, and propose a scientific approach in response to issues within the field of biology.

### Study tracks

The University Bachelor of Technology in Biological Engineering equips students to become autonomous, multi-purpose qualified technicians. It falls into five distinct study tracks which match very distinct employment sectors.

Two skills are common to the five study tracks of the Bachelor of Technology in Biological Engineering: analysing and experimenting.

- The **Dietetics and Nutrition study track** trains experts in nutrition and food. They will work with professionals in the health and social care sectors as well as in the catering industry and pharmaceutical industry. The practice of the dietician-nutritionist is based on the ethics of care, s/he participates in the adaptation of the diet to guarantee adequate nutritional intake for people – whether for individuals or in institutional catering – who are ill or in good health.

#### Skills

Caring; nourishing; educating

- The **Food Science and Biotechnology study track** trains multi-purpose and autonomous qualified technicians in such varied fields as agri-food, pharmaceuticals, cosmetics, biotechnologies and institutional catering. Through their versatility, graduates are responsible for various technical or regulatory tasks in production, quality, analysis or research and development.

#### Skills

Leading a QHSE (Quality, Health, Safety and Environment) procedure; producing; innovating

- The **Medical Biology and Biotechnology study track** trains multi-purpose qualified technicians in the fields of human health and well-being, animal health, as in the field of biotechnology. Whether graduates work in a biomedical laboratory, in R&D, in control or in a pharmaceutical or cosmetology company, they will have the technical skills required to carry out biological, physicochemical or biochemical examinations or analyses, also to carry out product control tests and intervene in vivo and in vitro animal experimentation.

#### Skills

Conducting studies from in vivo to in vitro scales; carrying

out biomedical tests; implementing molecular engineering techniques within the field of health biotechnologies

- The **Agronomy study track** trains multi-purpose qualified technicians whose task is to manage the production of agricultural resources and to sustainably improve techniques and methods. Graduates are expected to be able to work and evolve in all agricultural and para-agricultural sectors, in the upstream and downstream sectors of agriculture and in land use planning.

#### Skills

Producing; advising; innovating

- The **Environmental Sciences and Ecotechnologies study track** trains multi-purpose and autonomous qualified technicians in the fields of environmental protection and management of natural environments. Graduates are expected to be able to join and evolve in any sector related to the environment (whether in the management of natural and urban areas or in the analysis and treatment of pollution, the management of natural resources, circular economy).

#### Skills

Managing natural environments; treating pollutions; developing circular economy

### Entry requirements

The B.U.T. in Biological Engineering is open to high school graduates from **general or technological backgrounds** or to those changing study path.

Admission is based upon examination of academic records. When considering applications, some departments might require an interview. The B.U.T. can also be prepared within the Lifelong education scheme or on a vocational basis (apprenticeship training or work-based learning). The diploma can also be delivered on Accreditation of Prior Experiential Learning (APEL).

# B.U.T. Biological Engineering in France

