Bachelor Assistant Engineer Biology-Biochemistry-Biotechnologies | Undergraduate

FULL-TIME STUDY

SCIENCES AND HEALTH

A short **professional training** to prepare yourself for **laboratory jobs**, with many opportunities.

9 months
in company

54 %
of practical courses
the 2nd year

DISCOVER OUR

BACHELOR ASSISTANT ENGINEER BIOLOGY-BIOCHEMISTRY-BIOTECHNOLOGIES

OVERVIEW

Diploma awarded

“Assistant Ingénieur en Biologie-Biochimie-Biotechnologies”

Title certified by the State at level II (= Bac + 3 level), registered with the RNCP (National Directory of Professional Certification).

The training allows 180 ECTS.

Double degree possible

“Licence générale Sciences, technologies, santé ; mention Sciences et technologies ; parcours Biologie et Biotechnologies”

National Diploma issued by CNAM Rhône-Alpes.

Studying in Nîmes

The 1st and 2nd years of training for the BACHELOR Assistant Engineer can be completed at the Emmanuel D’Alzon Institute in Nîmes. The third year of training must be completed in Lyon.

INTERNATIONAL

Going international

An international stay is possible during this training:

- during one of the internships (4 months or 5 months)
- in a semester of study at a partner university (semester 6 at the end of the 3rd year)

INTERNSHIP AND WORK-STUDY PROGRAM

Missions in company

The course includes at least 9 months in business:

- Year 2: 4 months internship in a laboratory
- Year 3: 5 months internship in a laboratory or 7 months in a company (work-study program)

These two courses each have a fairly long duration, which allows you:

- to be entrusted with a real project (no observation internship)
- to go abroad for those who wish: almost 50% of BACHELOR students choose to do at least one internship abroad

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Work-study program

Year 3 can be followed on a work-study program, the choice is made during the 2nd year.

AFTER THE TRAINING

Skills implemented by the Assistant Engineer

The Assistant Engineer in Biology-Biochemistry-Biotechnologies is a versatile senior technician in the different fields of life sciences (biology, biochemistry, bacteriology, virology, immunology, cell culture, process engineering …).

He is the direct contact for the engineer or researcher in the team. He is called upon to implement protocols to carry out analyzes and preparations, to analyze and manage the results obtained, to maintain the equipment in his laboratory, to manage stocks …

He must master the scientific fundamentals of his activity and implement them independently.

Employment

- 56% hiring upon leaving, 90% hiring after 3 months, 100% hiring within 6 months
- 96% hiring within the ESTBB network
- 22 to 25K € salary for the first job

Continuation of study

50 to 60% of each promotion continue their studies.

The training allows further studies. In addition, it is possible to validate in double degree “Biology and Biotechnologies”, to facilitate the pursuit of studies.

What further studies possible?

- Year 3 of the ESTBB “Biotechnology Engineer”, with a choice of 5 specializations
- Masters (in Life Sciences, Medicine Sciences – Health, Quality …)
- Other schools (agronomy…)

Why integrate the Bachelor Assistant Engineer in Biology-Biochemistry-Biotechnologies?

Long internships, to be entrusted with real projects

15 teaching laboratories, with high-tech equipment

Small class, personalized follow-up, good professional integration right out

DISCOVER THE

PROGRAM DETAILED

BACHELOR YEAR 1

SEMESTER 1

Year 1 is devoted to the establishment of the scientific base and methodological tools for successful studies in higher education.

- Cell Biology
- Physiology-reproduction
- Genomics
- Biology of organisms
- Chemistry: structure of matter
- Analytical Chemistry 1
- Metrology, optics and mathematical tools
- Data processing and analysis

SEMESTER 2

- Protein synthesis
- Heredity
- Genetic engineering 1
- Immunology – bacteriology
- Organic chemistry
- Analytical Chemistry 1 – biochemistry
- Thermodynamic
- Biostatistics – computer science 1
- Optional: internship in a lab

BACHELOR YEAR 2

SEMESTER 3

Year 2 is devoted to the acquisition of the profession in the laboratory, with 54% of TP in the year.

- Immunology for diagnostics
- Bacteriology 1
- Bacteriology 2 and antibiograms
- Structural biochemistry
- Enzymology
- Technologies in biochemistry
- Biostatistics 2
- Personal development

SEMESTER 4

- Genetic engineering 2
- Cell culture 1 and Histology
- Metabolic biochemistry
- Computer Science 2
- Introduction to scientific research (project)
  - English
- Professional project
- Placement/internship in a laboratory (4 months)

It is possible to carry out this internship in an international partner laboratory.

BACHELOR YEAR 3

SEMESTER 5

- Developmental biology and applied immunology
- Cell culture 2
- Scientific written communication
- Introduction to business
- Bioinformatic
- Introduction to business: corporate knowledge
- Introduction to entrepreneurship
- English language
- Personal development

SEMESTER 6

- Virology – cancer biology – genetic engineering 3
- Biology of the skin
- Bioinformatic
- Biotechnologies
- Bioprocesses

- Placement/internship in a laboratory
- Professional project
- Placement/internship in a laboratory (5 months)

It is possible to follow this semester in an international partner university.

Contact us

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Monday to Friday, 9AM to 6 PM

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