

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.



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 1: 1 month internship in laboratory optional
- 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.

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

04 72 32 50 12

Monday to Friday, 9AM to 6 PM

Saint-Paul Campus

10, place des Archives - 69002 LYON

Métro Perrache (ligne A)

Tramways T2 et T1

Carnot Campus

23, place Carnot - 69002 LYON

Métro Perrache (ligne A)

Tramways T2 et T1

Alpes Europe Campus

25, rue de la cité

74000 ANNECY