

# estbb

École d'Ingénieurs en Biotechnologies



The Engineering School of  
Biotechnology at UCLy in Lyon  
for over 70 years



BIORESOURCES AND DATA



RESEARCH AND DEVELOPMENT



PROJECT MANAGEMENT



BIOPROCESSES



DIGITAL TRANSFORMATION



INTERNATIONAL INTERNSHIPS

# HERE WE TRAIN THE NEXT GENERATION OF BIOTECHNOLOGY PROFESSIONALS



Find us also on



# UNLOCK TOMORROW'S TALENT: CHOOSE ESTBB AS YOUR PREFERRED PARTNER



ISABELLE HARDY,  
DIRECTOR OF ESTBB

“ At ESTBB, we are much more than just a biotechnology engineering school. We are a talent catalyst, a breeding ground where future professionals in the biotechnology industries are trained. Our school, based in Lyon, France, stands out thanks to its 7 years of expertise in the biotechnology sector, its many industrial partnerships and its strong international outlook. With us, learning goes beyond the simple acquisition of knowledge. We foster flexibility, ethical thinking and interdisciplinary collaboration skills that are essential to meet your needs. As an innovative and visionary company, you are undoubtedly looking for the best talents to ensure your future growth. Hosting an ESTBB intern will be a win-win situation: you benefit from invaluable support and a fresh outlook, while our students gain practical experience. Together, let's shape the future of Biotechnology. ”

## OUR LABELS



ESTBB is part of UCLy (Catholic University of Lyon), a private higher education institution recognized of general interest (EESPIG) by the French government.



ESTBB is accredited by the French Commission for Engineering Diplomas (CTI) ensuring our students receive a top-tier engineering education.



ESTBB, as part of the Science and Health department of UCLy, is certified ISO 9001:2015, which signifies a mark of Quality Management Excellence.

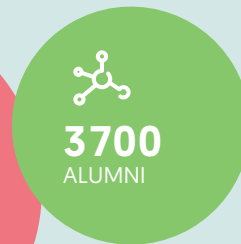
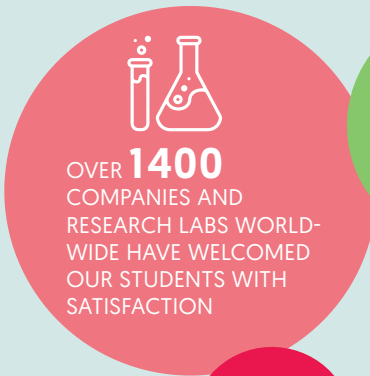
## OUR KEY FIGURES



MORE THAN **58**  
UNIVERSITY PARTNERS  
INTERNATIONALLY



**950**  
STUDENTS



**15**  
TEACHING  
LABORATORIES



**2**  
AXES  
OF RESEARCH



**260**  
EXTERNAL SPEAKERS  
AND INDUSTRY  
PROFESSIONALS AS  
GUEST LECTURERS



# INTERNATIONAL INTERNSHIP: EVERY YEAR, OUR STUDENTS GO ABROAD TO ENRICH THEIR PROFESSIONAL EXPERIENCE

## BIOTECHNOLOGY ENGINEER

Our 5-year Engineering program at ESTBB cultivates responsible and committed professionals, and is tailored to shape the future of biotechnology.

### AREA OF EXPERTISE OF THE INTERNSHIP

- Infectious diseases
- Bioresources and data
- Biotechnology innovation management (project management)
- Process engineering applied to living matter
- Digital transformation and e-health

### OBJECTIVE

- Engage in a dynamic and innovative project within the realm of biotechnologies, spanning various domains such as R&D, Technology Transfer and Innovation, Industrialization, Production, Qualification-Validation, Quality Control, or Communication.
- Contribute actively to project development, implementation and optimization, while gaining valuable hands-on experience in the biotechnology industry.

2 TO 6 MONTHS INTERNSHIP



## GOOD REASONS TO CHOOSE OUR ENGINEERS

- Proficiency in Engineering Sciences
- Comprehensive biotechnology project management
- Creation of innovative solutions
- Interpretation of results and initiative
- Writing and oral presentation skills
- Proficiency in adhering to industry regulations and standards ; GMP/GDP (Good Manufacturing Practice/ Good Distribution Practice)
- Hands-on learning through collaborative projects
- Commitment to community engagement initiatives

	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
BAC+4 INTERNSHIP										2 to 4 months			
BAC+5 INTERNSHIP							6 months between February and August						

Gratification at the company's discretion (gratification is compulsory for internships lasting 2 months or more in France).

## BACHELOR ASSISTANT ENGINEER IN BIOLOGY BIOCHEMISTRY BIOTECHNOLOGY

Our 3-year Bachelor's program at ESTBB focuses on practical skills and encourages thoughtful engagement, producing graduates who excel as skilled technicians with a proactive mindset.

### ACCESSIBLE WORK DEPARTMENTS:

- Bioresources
- R&D
- Analytical development
- Industrialisation
- Production
- Quality control

### OBJECTIVE

- Contributing as an efficient team member while undertaking hands-on laboratory work at the technician or assistant engineer level across various fields of biology, across various fields of biology, including but not limited to cell biology, cell culture, molecular biology, bacteriology, biochemistry, immunology, virology, histology, and more.

4 TO 5 MONTHS INTERNSHIP



	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
BAC+2 INTERNSHIP										3 to 4 months			
BAC+3 INTERNSHIP										4 to 5 months			

Gratification at the company's discretion (gratification is compulsory for internships lasting 2 months or more in France).



## GOOD REASONS TO CHOOSE OUR LABORATORIES ASSISTANTS

- Adeptness in multiple techniques
- Expertise in laboratory experiments and equipment operation
- Competence in handling PPE (Personal Protective Equipment)
- Proficiency in adhering to industry regulations and standards ; GMP/GDP (Good Manufacturing Practice/Good Distribution Practice)
- Familiarity with industry standards and requirements
- Inventory management of reagents and consumables
- Data analysis

## STUDENT TESTIMONIAL

ALBION, GRADUATED 2022

During my Master's degree in Biobank Management, I did my second-year internship at Philip Morris International in Switzerland.



My project assessed the impact of long-term cryopreservation on biobanked samples used in PMI's clinical research. Analyzing RNA integrity with the RIN method, I helped determine the effectiveness of biopreservation after extended storage.

This experience, beyond the stunning location, significantly improved my English and pushed me professionally, making it a valuable asset for my future in healthcare.

**Absolutely recommended!**

## INNOVATIVE LEARNING

### PROJECT MANAGEMENT

Students get hands-on experience in our advanced labs, independently managing real-world research projects. These projects tackle challenges provided by industry partners like you, ensuring their skills are directly relevant to your needs.

### ENTREPRENEURSHIP

We go beyond science. Our group projects hone communication and problem-solving skills. Students gain valuable insights into the challenges and opportunities faced by private companies. This equips them to understand the bigger picture and propose cost-effective, sustainable solutions that directly impact your bottom line.



### A PRIZE WON EVERY YEAR

2022: the POSSIBLE team won 3 prizes including the Public Grand Prize in the European competition Arqus.

2023 & 2024: our team won the Grand Prize in the Jeunes Pousses competition.



## STUDENT TESTIMONIAL

SAM, 3RD YEAR ASSISTANT ENGINEER

During my internship at Charles River Laboratories [USA], I carried out these assignments:



- Development of a panel of antibodies
- Drafting of protocols and analytical procedures
- Presenting the project to a team of 20 people on a weekly basis
- Analyses and interpretation of results
- Improving the method depending on results

# ESTBB AND ITS CORPORATE PARTNERS: EXCLUSIVE PARTNERSHIPS WITH WORLD LEADERS

ESTBB has signed exclusive partnership agreements with:



These partnerships foster links between academic courses and the world of industry, through visits to industrial sites, conferences with professional speakers, etc.



## CASE STUDIES

**CASE STUDIES THAT ADDRESS CURRENT BIOTECHNOLOGY ISSUES**

Offered each year by the school's partner companies, in 2023:



## PARTNERS TESTIMONIALS



“ESTBB offers courses in line with the needs of the Biotechnology sector and pays particular attention to its students, to support their career goals and develop their employability. Students have the opportunity to work in teaching laboratories with cutting-edge equipment, including a new laboratory where, under the supervision of teachers, they can carry out proofs of concept for companies.”

**RACHEL RAMA – DIRECTOR OF RESEARCH FOR PLANT PROTECTION PRODUCTS – BAYER**

### TESTIMONIAL

“Sanofi, a long-standing ESTBB partner company, hosts ESTBB students on work-study contracts every year. Within my department, we currently have a number of students on apprenticeships: these are students who are very well educated in experimental practice and are able to get involved in complex biotechnology projects. I also work as an expert with students at the school to train them in bioprocesses.”

**BASTIEN LABADIE – HEAD OF THE IMMUNOLOGY LABORATORY – SANOFI**



“ESTBB is a major player in Biotechnology Education in the region. The quality of teaching, the practicality of the degrees, and the awareness of entrepreneurial issues in innovative health companies make it a recognized partner that meets the skill needs of our 250 members.”

**FLORENCE AGOSTINO-ETCHETTO  
DIRECTOR OF LYONBIOPÔLE**



# FACILITATING SUCCESS: ESTBB SUPPORT FOR GLOBAL INTERNSHIP PLACEMENTS

**ARE YOU SEEKING SKILLED ASSISTANCE?** Look no further than our talented interns! Submit your internship offer, and let us help you promote it and match you with the perfect intern for your needs.

**PERIODS WHEN INTERNSHIP OFFERS ARE ADVERTISED :**  
September to February

## OUR SUPPORT

At ESTBB, we handle everything to ensure a smooth and successful internship experience:

- Administrative support for students (visas, paperwork, etc.)
- Promotion of internship opportunities to our students
- Facilitation of the tripartite agreement process
- Ongoing support and supervision for students throughout their internship
- Regular communication between the intern, their manager, and ESTBB
- Handling of confidential missions with strict confidentiality agreements

**Choose ESTBB for a hassle-free internship collaboration and let us take care of the rest!**

## FINANCIAL ASSISTANCE FOR THE STUDENT



Co-funded by  
the European Union

We assist students in obtaining ERASMUS grants from the European Union and BRMIE (international mobility regional scholarship) from the Auvergne-Rhône-Alpes Region.

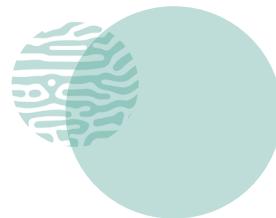


**La Région**  
Auvergne-Rhône-Alpes

Financial support for students via European Union and Auvergne-Rhône-Alpes regional grants.

## A GLIMPSE OF OUR ESTABLISHED PARTNERSHIPS WITH UNIVERSITIES WORLDWIDE

-  **Goethe-Universität, Frankfurt - GERMANY**
-  **Universidad Catolica de Valencia - SPAIN**
-  **Pázmány Péter Catholic University, Budapest - HUNGARY**
-  **Norwegian University of Science and Technology, Trondheim - NORWAY**
-  **Czech University of Life Sciences, Prague - CZECH REPUBLIC**
-  **University of Houston Clear Lake, Houston, TX - UNITED STATES**
-  **Université de Sherbrooke, Sherbrooke - CANADA**
-  **Pontifical Catholic University of Paraná - BRAZIL**
-  **Universidad Icesi, Calle - COLOMBIA**
-  **Macquarie University, Sydney - AUSTRALIA**



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