

# Infectiology & Biotechnology executives | graduate

FACULTY OF APPLIED SCIENCES

A master's degree in double degree to prepare yourself for **scientific positions** or jobs in dual competence **in bio-industries**

**12**

months in a  
company  
(internship or work-  
study program)

**90 %**

of professional  
speakers

DISCOVER OUR

## MASTER'S DEGREE IN INFECTIOLOGY & BIOTECHNOLOGY

### OVERVIEW

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#### Prerequisites

Access in year 1: Bac + 3 level diploma in Life Sciences validated (or equivalent)

Access in year 2: Master 1 in Life Sciences validated (or equivalent diploma)

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#### The year 1

It allows you to specialize in infectiology (bacteriology, virology, mycology and parasitology), a very dynamic field of biology which links academic research to applications in the pharmaceutical and in vitro diagnostic industries.

## The year 2 with [Sorbonne Université](#)

It is designed as a springboard to positions of responsibility in bio-industries: knowledge of the sector and accessible positions, management and project management tools, discovery of areas of dual competence to complete its profile (quality, industrial property, regulatory affairs, clinical research, marketing, customer support ...).

**This Master opens up a wide variety of positions in the pharmaceutical, veterinary and biotechnology industries.**

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### Full name of year 1

Mention: Life Sciences

Path: Integrative pathophysiology - Infectiology axis

It validates 60 ECTS.

The year 1 has an agreement with EPHE (Ecole Pratique des Hautes Etudes).



École Pratique  
des Hautes Études



### Full name of year 2

Mention: Molecular and Cell Biology

Path: Biotechnologies

It validates 60 ECTS.

The Master 2 has an agreement with Sorbonne University.

The graduate awarded is therefore a diploma from this university.



**Sorbonne University is ranked 2nd French university in international rankings (Shanghai 2019 ranking and Times Higher Education 2020 ranking)**

### COURSE CONTENT

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- Infectious diseases: 60%
- Business environment: 20%
- Managerial skills: 10%
- Humanities: science and society: 10%

- Internships:
    - Year 1: 4 months in business
    - Year 2: 6-month internship
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## **Individual support in the professional project**

Some ESTBB courses offer scientific profiles to discover areas of dual competence, in order to widen their employment possibilities.

After discovering all the services in the company where a scientist can work (R&D, Industrialization, Production, Clinical research, Quality, Regulatory affairs, Marketing-Sales, Support-Consulting ...), each student must then choose in which service he wishes to carry out his internship.

This decision is very important for the rest of his professional career, the student is supported in this choice by the Educational Director of the training.

She receives each student in individual interview until he has made his decision, then accompanies him in his search for an internship by communicating to him tracks of companies or contacts from the ESTBB network in the field sought.

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## **Project-based learning and collaborative work**

One of the year 2 modules is called "Project Management". Students are trained in the practice of project management, which they must then immediately apply through the conduct of a project integrating multifactorial issues: scientific and technical aspects but also strategic development, quality ...

These pedagogical methods have the advantage of preparing the student for the reality of work in a company, where the ability to work in a project group and to collaborate with various interlocutors is an essential element of success in a position.

## **INTERNSHIPS**

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### **Year 1**

The schedule of the Master 1 Infectiology is strongly focused on practical application in the field. Students must spend a total of 6 months (organized in several periods) in a laboratory, the host team can be a public or private laboratory, in France or abroad.

The only imperative is the theme of the mission: it must be in the field of infectiology (bacteriology, virology, immunology, mycology, parasitology ...).

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## Year 2

The Master ends with 6 months of internship, to carry out a long-term immersion in a team. This makes it possible to check the student's ability to integrate into a company and into a team, to take charge of a project, to conduct it independently, to identify the interlocutors necessary in the company, to produce results. ...

The services that can be envisaged within the company are very varied, due to the opening to the dual competence offered during the year 2:

- R & D
- Industrialization
- Production
- Quality Control
- Regulatory Affairs
- Clinical research
- Customer Support
- Industrial property
- marketing

Each student can thus give a specific direction to his career and his CV through his internship. His choice will be based on the areas that will have interested him most during the year 2.

## WORK-STUDY PROGRAM

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The two years of the Master can be completed under a work-study contract (professionalization), provided that you have found a host company or laboratory.

The contract is remunerated by the host company 61 to 85% of the minimum wage, and it is the company which pays the tuition fees.

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## The advantages of work-study

- a real first professional experience
- dual student-employee status
- a salary received for the duration of the contract (generally 10,000 to 11,000 euros per year)
- full support of tuition fees by the host company

ESTBB has at your disposal a list of infectious disease companies from which you can apply to find a contract.

It also distributes work-study offers each year to its students.

## CAREER OPPORTUNITIES

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This Master offers students a specialization in the main areas of infectious diseases:

- virology
  - microbiology
  - parasitology
  - immunology
  - mycology
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## **Jobs**

- R&D engineer
  - Industrialization or production engineer
  - Engineer or consultant in qualification-validation
  - Quality Manager, Quality Consultant
  - Application Engineer (customer support)
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## **Continuation of study**

This degree is a professional-oriented master, aimed at bringing graduates to the job market. The pursuit of studies towards a Doctorate is nevertheless possible.

## **Employment of graduates**

**55% find a job  
upon leaving**

**30% find a job  
within 3 months  
of leaving**

**15% find a job  
within 6 months  
of leaving**

## Contact us

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