

## SKILLS TAUGHT

- Developing innovative research projects in bioengineering field
- Planning and conducting scientific/technological projects (analysis, diagnosis, modeling, experimental protocols, result interpretation)
- Scientific and medical ethics
- Elaborating oral and written scientific communications for international conferences and peerreviewed journals
- Capacity of adapting to professional environments (teamwork, adjusting to different contexts and cultures)

### **ENTRANCE REQUIREMENTS**

This BME Paris Master program is open to:

- highly motivated students
- all nationalities
- with a scientific, biomedical or engineering curriculum

Admission can be considered at either M1 or M2 level.

### APPLICATION DATES

Open:1February

• Close: 30 June

**LOCATION** Paris, France

**FULL TIME 2 years** 

**PROGRAM TAUGHT IN English** 

### M1 ENTRY REQUIREMENTS

Any Bachelor's degree in Science

### **CONTACT & INFORMATION**

#### **PROGRAM CHAIRS**

Pr. Sophie Bernard Université de Paris

Pr. André Klarsfeld ESPCI Paris, Université PSL

Pr. Sébastien Laporte Arts & Métiers

### **MASTER'S PROGRAM COORDINATOR**

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www.bme-paris.com









# BMEPARIS

**BioMedical Engineering** MASTER'S PROGRAM

# MASTER IN **BIOMEDICAL ENGINEERING**

An interdisciplinary program bridging engineering concepts and tools and health and life sciences

- Strong links to the socio-economic and medical worlds: industry lecturers (e.g. from

## AN INTERNATIONAL MASTER'S PROGRAM

The BME Paris Master's Degree Program offers two years of academic and professional training in bioengineering, a burgeoning field at the crossroads of the biomedical and engineering sciences. This program results from a partnership established between Paris University and the Paris Institute of Technology (ParisTech).

This jointly sponsored program offers a high-quality curriculum to students arriving from a broad range of academic backgrounds:

biology and biochemistry, medicine, chemistry, physics, engineering, mathematics and computer science, etc. The aim of the BME Paris Master is to provide students with the tools and capacities that will enable them to function in a broad range of biomedical engineering applications that today rank among the most scientifically innovative and rapidly developing areas of academic or clinical research as well as industrial R&D.

## 1st SEMESTER

Integration week

Scientific Thinking Module

- - Computer Programming

BioMedical Modeling

- Applied Mathematics for biological systems
- Molecular & cellular biology for engineers
- Chemistry for engineers
- Medicine & Science

- Physics for Biolmaging
- Biomechanics
- Anatomy & physiology for engineers

### 2nd SEMESTER

• Ethics and Patents

• Internship(s), for a total of 4 months

Scientific Writing

• BioTech FabLab project

## 3rd SEMESTER

INTERDISCIPLINARY SEMINAR including ALL M2 students



BIOENGINEERING BIN AND INNOVATION IN NEUROSCIENCE



BIM BIOIMAGING





- engineering science subtrackhealth science subtrack



4th SEMESTER

5- TO 6-MONTH INTERNSHIP