

# Master in Materials Science and Engineering

## Track : **MICROFLUIDICS**

### 2nd year of Master degree - Fall semester

**All students** may follow **scientific courses** from this program.

The exchange offer corresponds to the first half of the academic year, **fall semester (from September to January)**. *Full year exchange possible, please note that the second semester (starting from February) is entirely dedicated to a 5-6 months period of internship (position and stipend to be found by the student during the first semester).*

A minimum of **20 ECTS** (European Credit Transfer and Accumulation System) are **required** for the **learning agreement**.

**All courses** are taught in **English**.

Please note that courses are **place-limited**.

For information on the requirements of each course, please check the syllabus on our [website](#) or [here](#).

Courses take place at **various campuses**, all located near the **Panthéon** and the **Luxembourg Garden**:

- **IPGG- Institut Pierre-Gilles de Gennes, located at : 6 rue Jean Calvin 75005 Paris**
- **SU-Sorbonne Université, located at : 4 place Jussieu 75005 Paris**

COURSES
MHFLU.HYD - <b>Micro-hydrodynamics</b> (3 ECTS, IPGG)
MHFLU.FAB - <b>Techniques of microfabrication</b> (3 ECTS, IPGG)
MHFLU.BIO - <b>Introduction to biology</b> (3 ECTS, IPGG)
MHFLU.ACT - <b>From Soft to Active Matter</b> (3 ECTS, IPGG)
MHFLU.CAP - <b>Capillarity and Interfaces</b> (3 ECTS, IPGG)
MHFLU.MAT - <b>Soft Matter</b> (3 ECTS, IPGG)
MHFLU.ENE - <b>Blue Energy</b> (1 ECTS, IPGG)
MHFLU.RHE - <b>Rheology</b> (3 ECTS, SU and IPGG)
MHFLU.ANA - <b>Microanalytical Chemistry</b> (2 ECTS, IPGG)
MHFLU.FLO - <b>Flow chemistry</b> (1 ECTS, IPGG)
MHFLU.ORG - <b>Organs on chip</b> (2 ECTS, IPGG)
MHFLU.RES - <b>Short-term Research Project</b> (2 ECTS)
MHFLUPSL - <b>PSL Week</b> (1 ECTS)