

OUR ALUMNI

Perhaps the best indication of student success is the feedback we received from our graduates.



CHARLOTTE (Engineer in chemistry)

This master is an opening to the different applications of microfluidics. It provides the opportunity to acquire various skills through specific instruction in several schools. **The undeniable advantage is to meet many professionals in the field, which is relevant to confirm your choice of internship and your professional project.**

MANH-LOUIS (Medical doctor)

As a medical intern, one of my interests is Genetics, which is developing at an incredible rate. This master's degree allowed me to deepen my knowledge of this field from the point of view of Microfluidics by strengthening my senses in Physics and Chemistry, thus giving me the opportunity to conceptualize the medical analysis systems of tomorrow. In addition, I remain close to medicine thanks to their close collaboration with the Institut Curie. **A recognized world specialist in Microfluidics, the IPGG combines excellent scientific training with a very strong link with entrepreneurship and industry through numerous seminars.** Doing this master's degree is a bit like setting foot on the Moon by joining the French pioneers of Microfluidics, to bring it to what microelectronics does today.

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<https://microfluidics-master.fr>

3 WHO SHOULD APPLY

Students that have followed our Microfluidics program have backgrounds in the traditional fields of Physics, Biology, Chemistry, Mechanical Engineering, etc. Research and education form the essential part of the Microfluidics M2 degree. Two key elements distinguish the experience from that provided by many other institutions: **exceptional academic programs**, and **practical and research experience**.

The Microfluidics degree is designed for students who plan to pursue scientific knowledge in fields that do not fit traditional categories or those who seek competency in multiple scientific disciplines. Thus, it is a natural choice for those with dual undergraduate degrees, like engineers, medical doctors or pharmacists.



HOW TO APPLY

Applications are opened to French and foreign students holding a M.Sc.1 degree or 240 ECTS at the time the curriculum starts (September).

More details are available on our website:

<https://microfluidics-master.fr/> and upon request by email at contact-master@institut-pgg.com.

While the official application procedure starts annually around late winter, don't hesitate to contact us well ahead, especially if you aim at applying to scholarships (Eiffel program, etc.). Please send us the following documents:

CURRICULUM VITAE

PAST ACADEMIC OFFICIAL SCORES & GRADING TRANSCRIPTS

MOTIVATION/COVER LETTER

NAME AND CONTACT DETAILS OF TWO REFERENCES*

** (professors, internship advisors, etc.) who may be subsequently contacted for recommendations.*

Recommendation letters are not mandatory but will be taken into account if they are relevant and balanced.

P1

THE MICROFLUIDICS DEGREE AT A GLANCE

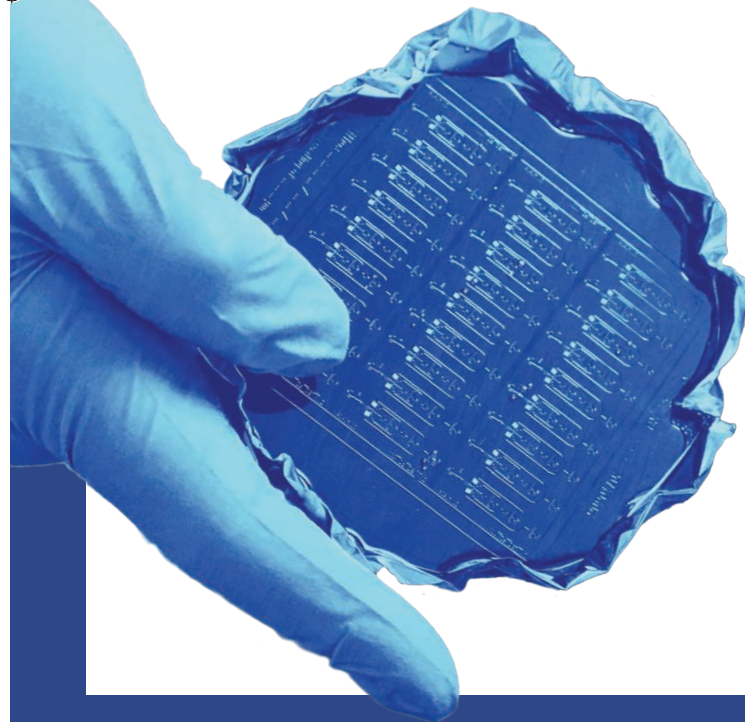
The Microfluidics degree (Master 2) is an **interdisciplinary degree, oriented towards innovation and industrial applications**. In a few words the shortest way to take part to the academic, start-up and industrial eco-system built around microfluidics.

A HIGHLY INTERDISCIPLINARY CURRICULUM

COURSES TAUGHT IN ENGLISH

AN INTERPLAY BETWEEN BASIC & APPLIED SCIENCE

A SCHEDULE COMPATIBLE WITH A WORK/STUDY CONTRACT



The Microfluidics program is a focused interdisciplinary plan of study in which students take mandatory and elective courses in various disciplines, and complete a Master's thesis and project.

The specific aspect of the program is that it integrates the interdisciplinary content of **Institut Pierre-Gilles de Gennes** into a unified program of research. Students in the Microfluidics graduate program have the opportunity to take courses in **microtechnologies, natural and physical sciences (biology, chemistry, physics), and instrumentation**, in a program designed for professional growth in their area of interest. These areas are further explored through a required project or thesis that includes independent research into their particular area of interest.

The degree is part of:

- the "Physics of Complex System" Master's degree (Sorbonne Université, Université Paris-Diderot and Université Paris Saclay)
- the "Materials Science and Engineering" Master's degree (PSL University)

P2

A CURRICULUM COMMITTED TO INNOVATION

Students in the Microfluidics graduate program have the opportunity to gain experience in innovation strategies, and interact closely both with start-up companies hosted within the IPGG [PC'Up] and larger industrial players.

In the Microfluidics program, **our students develop a large suite of transferable skills across multiple disciplines, from the fundamental basis to up-to-date applications**. Through coursework, advising and their own research, they will build a versatile skill set. This includes research methods, laboratory techniques, critical thinking, problem solving, and numeric techniques.

Students graduating from the Microfluidics degree play a critical role in addressing and answering the questions that will improve lives and transform our world. Our students are taught to think like engineers and scientists through opportunities to solve relevant challenges in new and unique ways. The degree is built on a world-acclaimed faculty, state-of-the-art research laboratories and highly interdisciplinary curricula. Innovation and technology transform the fundamentals of what future engineers are learning.

