

MASTER'S DEGREE IN SCIENCE & TECHNOLOGY FOR HEALTH

U N I V E R S I T É P S L

The Master of Science & Technology for Health (ST4Health) is PSL's specialization in health engineering, offering a two-year course at the intersection of biomedical and engineering sciences. This program is at the heart of the health innovation initiatives of Université PSL, a member of ParisSanté Campus. The ST4Health Master's degree is affiliated to the Engineering (ISAI) and Life Sciences graduate programs.

LEARNING OUTCOMES

The Master ST4Health offers a program of excellence aimed at students with diverse backgrounds (physics, chemistry, biology, engineering, computer science, mathematics, medicine, pharmacy and other health sciences). The main objectives of the program are:

- Provide students with the knowledge and techniques they need to gain initial experience in a wide range of biomedical engineering fields.
- Train professionals in biomedical innovation with a multidisciplinary background, enabling them to understand and tackle health challenges in all their complexity.
- Foster a fruitful collaborative approach to innovation projects at the interface between science, engineering and medicine.

The second year (M2) is organized in three different tracks sharing some common core courses. In the first year (M1), students consolidate and broaden their core knowledge in both engineering and the medical field, and prepare for one of the M2 tracks through specialized courses.

CAREER OPPORTUNITIES

- PhD in a field related to the M2 track followed by the student, in academia or jointly with a company (CIFRE PhDs).
- R&D positions in large companies or startups, in almost all biomedical and healthtech sectors.
- Continuing medical or pharmacy school, or accessing it through "passerelle" pathways, in either 2nd or 3rd year.
- Business programs in health and medtech management (ESCP, EM Lyon / Centrale Supélec...).

MAIN ASSETS

- An exceptional scientific environment within PSL, including several of the most prestigious research institutes in Paris (ENS - PSL, ESPCI Paris - PSL, École nationale supérieure de Chimie de Paris - PSL, MINES Paris - PSL, Collège de France, Institut Curie...).
- Strong links to the socio-economic and medical worlds, through the inclusion in ParisSanté Campus.
- A situation at the very lively and cultural heart of Paris.
- Specific support for international students (help with housing and administrative procedures, courses of French as a foreign language...).

English track

CURRICULUM

First year : Master 1 (60 ECTS)

The **M1 year** comprises a common core with preparatory units for the M2 courses.

→ **Opening of Master Year 1: September 2026**

Second year : Master 2 (60 ECTS)

3 tracks proposed

- Biomaterials & Engineering for Health (BEH)
- AI & Digital Health (AIH)
- Digital Mental Health (DMH)

One 5 to 6-month long internship

TRACKS

First year (Master 1)

The Master 1 program is designed to reinforce and broaden students' skills in biomedical science and engineering. A set of teaching units covering general and cross-disciplinary concepts is offered as part of the core curriculum. These courses are complemented by optional specialization courses to prepare students for the M2 year in the track of their choice.

Second year (Master 2)

— Biomaterials & Engineering for Health (BEH)

The Biomaterials & Biodevices track focuses on the study and design of materials, nanotechnologies and devices interfaced with biological systems for innovative therapeutic and diagnostic solutions.

— AI & Digital Health (AIH)

The AI & Digital Health track focuses on the study and design of data science, artificial intelligence and image analysis approaches to accelerate advances in personalized medicine and support the emergence of new healthcare technologies.

— Digital Mental Health (DMH)

The Digital Mental Health track focuses on the study and design of innovative solutions using digital sciences and technologies for the diagnosis and treatment of mental health pathologies.

ADMISSIONS

→ Admissions 2025/2026: Only open for Master 2

Prerequisites

— **Master 1 (opening of Master 1 : September 2026):** Bachelor's degrees of sciences (particularly, but not restricted to, life and health sciences, engineering, chemistry, physics, mechanics, mathematics, computer science), CPES PSL (Sciences Track) and equivalent foreign degrees.

— **Master 2 :** Residents in medical, dental or pharmacy schools, engineering school students and ENS science students can apply directly for the second year (M2). The same conditions apply to students who have completed one year of M1 in science or engineering. International students can also apply for M2, provided they have already obtained a degree equivalent to M1 level.

Application process

Online application and interview for preselected candidates.

DIPLOMA DELIVERED

National Master's degree conferred by Université PSL and prepared at ESPCI Paris – PSL.

More information

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