



MASTER IN LIFE SCIENCES

U N I V E R S I T É P S L

The PSL Master's degree in Life Sciences is an interdisciplinary Master's programme that aims to prepare the next generation of scientists, engineers, and physicians to address emerging problems in contemporary biology, ecology and environmental science.

The Master is jointly proposed by world-renowned schools: École normale supérieure (ENS), École Pratique des Hautes Études (EPHE), Collège de France, ESPCI Paris, MINES ParisTech, Institut de Biologie Physico-Chimique (IBPC), Institut Curie and Institut Pasteur. Competitive recruitment with an exceptionally high researcher/student ratio, tailor-made training, along with close tutoring are shared between the different teaching institutions within PSL. In addition, research training through research practice is an historical mark of these institutions.

MAIN ASSETS

- **Interdisciplinarity:** solid training in biology, ecology and related fields (mathematics, physics, chemistry, computer science).
- **Generalist education with specialization in a cutting-edge field.**
- **Training in research and in innovation through research:** students will complete two internships in academic/industrial research laboratories, private organizations, and/or design offices/regional authorities/nature reserves in France or abroad.
- **International exposure:** the Master's offers curricula taught exclusively in English, or in French and English. French language classes are available to international students. International internships benefit from existing networks with partner institutions.
- **Expert teaching:** the programme is implemented by the best specialists from world-renowned institutions.
- **Mentorship:** a faculty mentor is assigned to each student to help guide him or her in choosing courses, finding an internship, and preparing a study contract. Students in the Medicine/Science tracks will receive dual mentoring in science and medicine.

— **High quality of PSL laboratories.**

— **Access to scholarships** (€10,000/year) for specific categories of students.

— **Access to pre-professional contracts and eligibility for continuous professional training.**

CAREER OPPORTUNITIES

The PSL Master's in Life Sciences primarily prepares students for careers as researchers, research professors, research physicians or research engineers in the public sector, or as Research and Development professionals in the private sector, particularly in pharmaceutical and innovative biotechnology industries. Career opportunities also exist in management of nature reserves and natural resources, such as forestry or water supply agencies, and local and regional authorities.

PROGRAM

Master 1 (60 ECTS)

3 curricula

- Interdisciplinary Master's in Life Sciences (IMaLiS)
- Integrative physiopathology (IMaGHE, IPP)
- Biodiversity and environment (IMaGHE, B&E)

Master 2 (60 ECTS)

6 curricula

- Systems biology, genomics and bioinformatics (IMaLiS, Sysbio)
- Neuroscience (IMaLiS, Neuro)
- Fundamental biology for health (IMaLiS, Bio4Health)
- Ecology and evolution (IMaLiS, EcoEvo)
- Integrative physiopathology (IMaGHE, IPP)
- Biodiversity and environment (IMaGHE, B&E)

All curricula include research internships during both M1 and M2 years (4–6 months/year for IMaLiS, 2–6 months/year for IMaGHE). Limited cross-sampling between the different pathways is possible, provided faculty are in agreement.

COURSES

— **IMaLiS** is a high-level, generalist, life sciences curriculum incorporating key interdisciplinary content (including optional training in mathematics, physics, chemistry, geosciences and computer sciences). It is managed by the department of biology of the ENS.

Courses: cellular and developmental biology, medical sciences, genetics, genomics, neurosciences, computational biology, system biology, evolution and ecology, optional training in career skills (foreign languages, scientific communication, statistics, grant-writing, and ethics), etc.

— **IMaGHE** (Integrative Master for Global Health and Ecology) includes two alternative, interconnected curricula devoted to life sciences, from the molecule to the organism (Integrative PhysioPathology) or from the organism to the environment (Biodiversity and Environment). Both curricula address questions about biotic and abiotic interactions affecting the health of living organisms. IMaGHE is managed by the section of Life and Earth Sciences of the EPHE.

Courses: Master's 1 and 2 programmes allow early involvement in a research (or R&D) project by backing fundamental learning with the context and practice of the internship. Year 1 includes a common core providing mandatory training in career skills (foreign languages, scientific communication, statistics, resume- or grant-writing, ethics, etc.), in addition to "commitment" courses preparing for the choice of future teaching units.

To apply

psl.eu/en/formation/master-s-degree-life-sciences

Contact

admissions-master-sdv@listes.univ-psl.fr

ADMISSIONS

Application process:

1 - Online application.

2019 submission deadlines depend on the curriculum and are listed on the corresponding webpages. Application from March 4, 2019.

2 - **Interview** for preselected candidates (for IMaLiS curricula).

PREREQUISITES

— **Master 1:** bachelor degree or equivalent encompassing significant cell and molecular biology training (Life Sciences, Health, Sciences & technology, Geosciences etc.).

— **Master 2:** master 1 degree in Science (Life Sciences, Health Sciences, Science and Technology, Earth and Life Sciences, etc.) or equivalent (minimum 4 years of studies in the sciences), and students from French engineering schools who have received basic education in Life Sciences.

At least C1 level in English recommended for IMaLiS M1 and M2 (courses taught in English).

Université PSL

psl.eu

f @PSLuniv

📷 @psl_univ