



SCIENTIST AND ENTREPRENEUR PSL-ITI

UNIVERSITÉ P S L

Established by eight Université PSL's institutions (Chimie ParisTech, École normale supérieure, ESPCI Paris, Institut Curie, MINES ParisTech, Paris-Dauphine, Observatoire de Paris, ENSAD) that rank among France's top institutions for scientific research and engineering, **the Institute of Technology and Innovation (PSL-ITI) offers selective, multidisciplinary training for students at the post-master's (or pre-doctoral) level or as part of a dual curriculum during doctoral study.** The purpose of this research-based program is to train a new generation of exceptionally high-level engineers, researchers, PhDs and entrepreneurs who are open to multidisciplinary study, innovation and entrepreneurship.

MAIN ASSETS

- **EXCELLENCE** • A one-of-a-kind curriculum that draws on the diversity and academic excellence of France's leading institutions in both the hard sciences and social sciences.
- **MULTIDISCIPLINARITY** • An innovative curriculum designed to promote the emergence of new ideas and disruptive technologies. Students gain academic knowledge in a variety of disciplines as well as solid expertise in all aspects of innovation, entrepreneurship and design.
- **INNOVATION** • Immersion in a cutting-edge international research community that works on an ongoing basis with academic and industrial laboratories and major research institutions (CNRS, INRIA, INSERM), in close cooperation with major innovators, including large manufacturers, incubators and startups (Agoranov, Criteo, Biophytis, Woodoo, the Boson Project, etc.)
- **ENTREPRENEURSHIP** • Conferences led by renowned entrepreneurs, specialized coursework in the innovation economy, coaching by professionals (investors, venture capitalists, etc.), along with access to the PSL ecosystem (incubators, fablabs, coworking spaces).

LEARNING OUTCOMES

- PSL-ITI offers interdisciplinary academic tracks designed to foster the free flow of ideas and talent and promote the emergence of breakthrough innovations.
- A customized curriculum: students choose 3 scientific majors from among 10 of PSL's flagship research disciplines.
 - Close supervision, small size classes, conferences, seminars, visits to industrial sites and laboratories, project work, national and international competitions.
 - An international study environment: 10 or more nationalities represented in each year's program, instruction in English, collaborations with top-ranked universities (MIT – Massachusetts Institute of Technology, EPFL, Technion – Israel Institute of Technology, etc.)

OPPORTUNITIES

A true springboard for a career as a researcher or entrepreneur, PSL-ITI offers a wealth of opportunities: students may go on to obtain a PhD, establish a technological startup, join an R&D facility as a researcher, etc. Upon completing the course of study, students are awarded a PSL diploma (post-master).

CURRICULUM

Coursework

September – December

— Sciences: choice of 3 majors (3 × 80h)

- Innovative technology for healthcare
- Cognitive engineering
- Fluid engineering
- Quantum engineering
- Advanced materials
- Applied mathematics for signal processing and imaging
- Energy
- Environment
- Modeling and engineering for biological systems
- Space engineering

— Innovation and entrepreneurship (80h)

— Humanities and social sciences (20h)

Internship

January – May

Internship within a laboratory, major manufacturer or startup

5 months
In France or abroad

Startup project

June – July

— Collaborative project to create a startup

- Project setup as a team, overseen by professionals
- Business plan

— Lecture series

led by internationally renowned scientists, entrepreneurs and pioneers in innovation from the manufacturing world

— Presentation and evaluation

of the projet by a jury of professionals

The program includes more than 140 professionals who advise and assist students with their projects.

WHO SHOULD APPLY?

PSL-ITI is seeking applicants who are curious, inventive and entrepreneurial. Each year's class includes a host of talented participants with a wide range of backgrounds, academic paths and career plans.

PSL-ITI is unmatched as a scientific environment for creativity, innovation and entrepreneurship, offering talented students an opportunity to express themselves and forge a solid career path that is consistent with their aspirations. The program may be undertaken at various stages of a student's academic path:

— During the year prior to beginning a doctoral program or during a preparatory year for an entrepreneurial project in technology, immediately upon completing a Master's degree.

— The program is also open to doctoral students in the hard sciences who wish to acquire new scientific skills and receive instruction in innovation and entrepreneurship, in one of three ways: while completing their dissertation, by taking coursework over the course of three years; at the start of their dissertation, with additional coursework taken during the dissertation period; or during a gap year.

— Post-doctoral students or experienced professionals may also enroll in the program.

More information

collegedoctoral.psl.eu/en/psl-doctorate/psl-iti-program

Contact

admissions-iti@psl.eu

ADMISSIONS

— French or foreign students holding a Master's degree from a major engineering institution or ENS and/or a Master of Science (MSc) degree.

— Languages: B2 level of English recommended.

SELECTION PROCEDURE

Based on an application and interview:

— Applications must be submitted online – March-May (admissionspsl.univ-psl.fr).

— Interview with eligible candidates – May-June.

Once admitted, students are eligible for a grant that is awarded on the basis of academic excellence.

TEACHING LOCATIONS

Classes are conducted in the heart of Paris on the campuses of the institutions involved in the program.

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