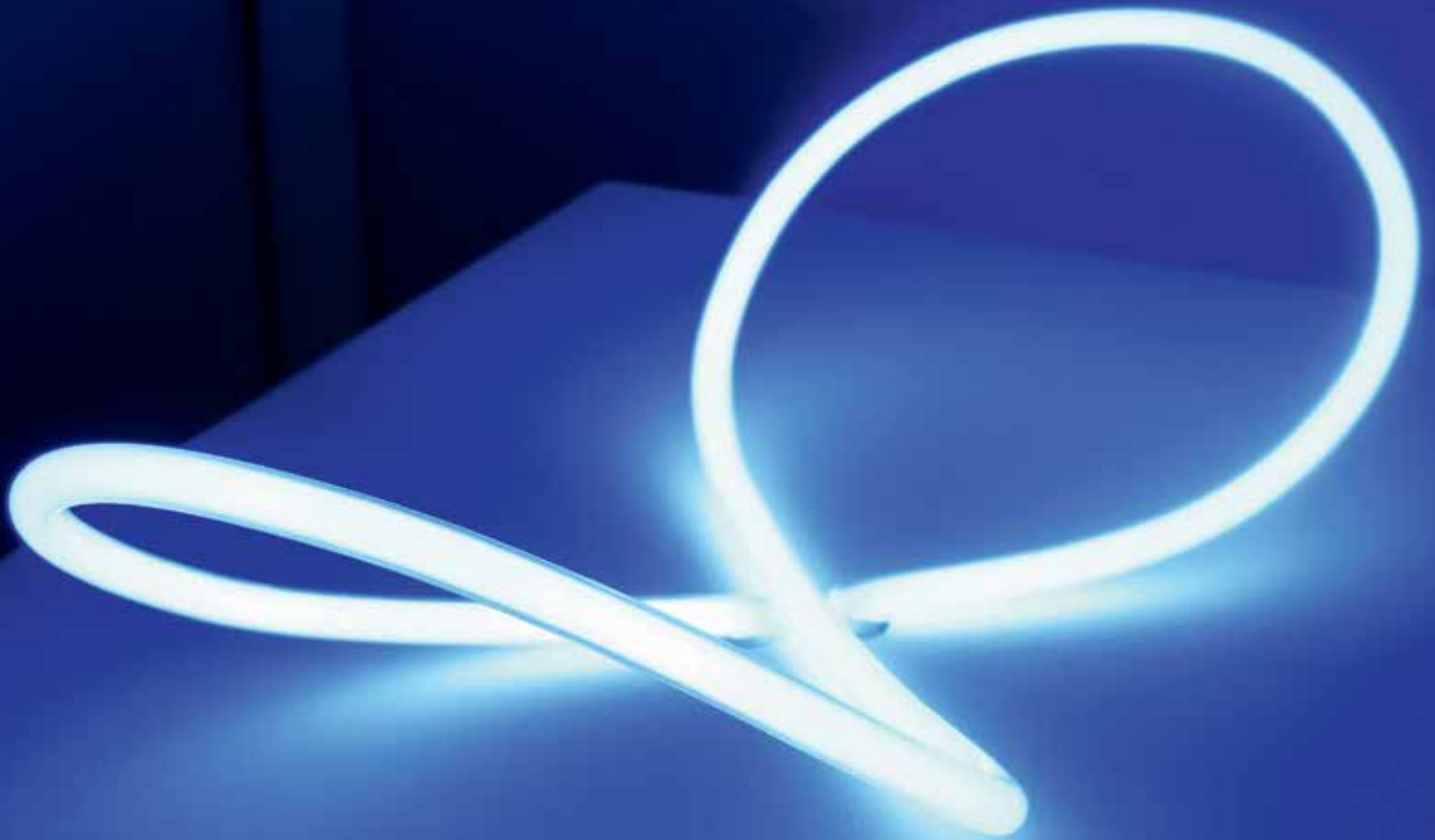


**INSTITUT
d'OPTIQUE**
GRADUATE SCHOOL
ParisTech



**A FIRST-CLASS EDUCATION
AND RESEARCH INSTITUTION IN PHOTONICS**

INSTITUT D'OPTIQUE GRADUATE SCHOOL (SupOptique)

**A European Higher Education Leader in Photonics
and Optical Science and Engineering**

FOUNDED IN 1917 INSTITUT D'OPTIQUE GRADUATE SCHOOL IS A FRENCH GRANDE ÉCOLE OF ENGINEERING, and a founding member of ParisTech and Université Paris-Saclay.

Its international reputation is built on:

- ▶ High quality academic and practical education,
- ▶ Major scientific contributions of its research centre,
- ▶ Close ties with industry.

WITH AN INTAKE OF 150+ STUDENTS PER YEAR

Institut d'Optique Graduate School offers the broadest scope in the field of photonics and optical sciences and engineering in Europe. It is an internationally renowned research centre in the field of physics, theoretical and applied, optics and photonics.

Institut d'Optique Graduate School is established on three campuses, in Paris-Saclay (Palaiseau), Bordeaux and Saint-Étienne.

Opportunities for study

DIPLÔME D'INGÉNIEUR DE L'INSTITUT D'OPTIQUE – MASTER OF SCIENCE IN ENGINEERING INTERNATIONAL INTRODUCTORY TRACK IN ENGLISH

- ▶ Main programme: diplôme d'Ingénieur de l'Institut d'Optique (equivalent to an integrated Master of Science in Engineering)
- ▶ Local admissions: mostly through a competitive entrance examination taken after two intensive years of undergraduate studies in fundamental sciences (*Classes Préparatoires aux Grandes Écoles*).
- ▶ International admissions: students with a strong background in physics (Bsc or Msc degree or a relevant engineering degree).
- ▶ First semester specially designed for international students: taught in English, along with french language classes, update in optics and photonics.

MASTER IN PHYSICS IN TWO YEARS

Université Paris-Saclay and Institut d'Optique Graduate School offer a joint degree programme for top-class students. The two-year programme allows to concurrently take two graduate degree programmes and complete the requirements for both a Master Degree in Physics and Photonics and the prestigious Diplôme d'Ingénieur de l'Institut d'Optique (MScEng).

AT A MASTER 1 LEVEL

- ▶ Photonics and Optical Engineering
- ▶ Photonics and Fundamental Physics

These two feeder tracks lead to the following M2:

AT A MASTER 2 LEVEL

- ▶ M2 Laser Optics Matter
- ▶ M2 Nanosciences
- ▶ M2 Biological Systems and Physical Concepts
- ▶ M2 Large-Scale Facilities
- ▶ M2 Optical Networks and Photonic Systems
- ▶ M2 Image Processing

ADVANCED MASTER IN EMBEDDED LIGHTING SYSTEMS

A high level international post graduate degree in the field of lighting systems for the automotive industry, co-designed by corporate partners and prominent higher education institutions.

PHD

Subject to advertised vacancies, PhDs can be undertaken in all fields covered by the research interests of Institut d'Optique research groups.

Three sites, numerous fields of application

PARIS-SACLAY
(Palaiseau)

Light-matter Interaction, Nanosciences, Signal and Image Sciences, Advanced Optical Systems Design

BORDEAUX

Optics and Computational Optics, Virtual and Mixed Reality, Physics and Modelling, Nano and Bio-imaging

SAINT-ÉTIENNE

Optical systems, Visual rendering and machine Vision, Lighting and energy

FACTS AND FIGURES

450 ENGINEERING AND MASTER STUDENTS
35% OF STUDENTS PURSUE PHDS
150 DOCTORAL STUDENTS
30% OF SYLLABUS TAKEN UP WITH PROJECTS AND LAB WORK
WIDE OFFER OF COURSES TAUGHT IN ENGLISH
ENTREPRENEURSHIP PROGRAMME

INTERNATIONAL CLASS RESEARCH IN INSTITUT D'OPTIQUE LABORATORIES

FACULTY MEMBERS CARRY OUT THEIR RESEARCH IN ONE OF THE THREE LABORATORIES OF INSTITUT D'OPTIQUE, IN COOPERATION WITH CNRS AND INRIA :

- ▶ Laboratoire Charles Fabry (LCF), Paris Saclay
- ▶ Laboratoire Hubert Curien, Saint-Étienne
- ▶ Laboratoire Photonique, Numérique et Nanosciences (LP2N), Bordeaux.

Experiment in OG (Airbus A300)

Optics and photonics are key enabling technologies, making major contributions to technological revolutions. They have a significant impact on many fields of society: aeronautics and space, energy and sustainable development, optical technologies and digital information (signals, data, images), defence and security, transportation, telecommunications, life sciences and health, etc.

INDUSTRIAL PARTNERSHIPS AND ENTREPRENEURSHIP

- ▶ For a century, Institut d'Optique Graduate School has developed ties with industrial partners, through collaborative projects and shared lab facilities. Its Entrepreneurial and Innovation Centre hosts 40 privately owned start-ups.
- ▶ The Institute has an excellent record of company creation with an average of 2 new companies created each year by students in the Diplôme d'Ingénieur's Entrepreneurship track.

STRONGLY CONNECTED TEACHING, RESEARCH AND INNOVATION
130 FACULTY MEMBERS
190 GUEST LECTURERS
25 ACTIVE PARTNERSHIPS WITH FOREIGN UNIVERSITIES
3 SITES INTEGRATED INTO REGIONAL NETWORKS OF EXCELLENCE
CONTINUING EDUCATION

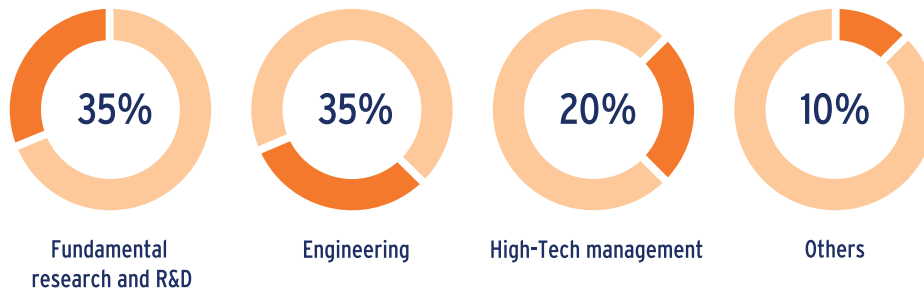
OUR DISTINCTIVE LEARNING ENVIRONMENT AND STRENGTHS INCLUDE

- ▶ Advanced training in physics, image sciences, optical engineering and photonics;
- ▶ Research-driven teaching;
- ▶ Full-time, project-oriented internships in companies or laboratories;
- ▶ Coursework reinforced by emphasis on projects and labwork (over 100 different experiments on 150 lab benches);
- ▶ Double- and joint-degree opportunities;
- ▶ Three interconnected sites integrated into thriving local research and industrial environments;
- ▶ Opportunities for cooperative work and study (co-op track);
- ▶ Entrepreneurship centres comprising start-ups, FabLab and funding structure.

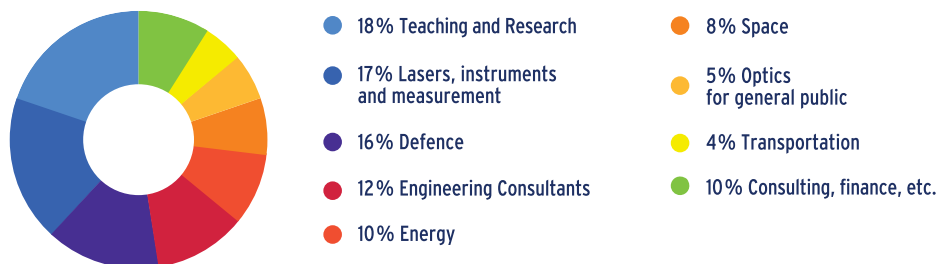


Students on Saint-Étienne campus

CAREER PROSPECTS



MAIN EMPLOYERS



MAIN RECRUITING COMPANIES AND INSTITUTIONS

THALÈS, NOKIA, AIRBUS GROUP, APPLE, ESSLOR INTERNATIONAL, SAFRAN, ALTEN, ALTRAN, VALEO, GROUPE RENAULT, GROUPE PSA, SAINT-GOBAIN, CORNING, LUMIBIRD, HGH INFRARED SYSTEMS, IXBLUE, L'ORÉAL PARIS, SODERN, SOFRADIR, CORNING, HORIBA, ST MICROELECTRONICS, EY, UNILOG, CEA, ONERA, CNES, DGA, OBSERVATOIRE DE PARIS, CNRS, UNIVERSITÉS...

AS WELL AS NUMEROUS SME AND INNOVATIVE START-UPS

LIFE AT INSTITUT D'OPTIQUE

GRADUATE SCHOOL

INTERNATIONAL ADMISSIONS

DEGREE SEEKING STUDENTS

Institut d'Optique participates in international admissions programmes in China, Russia, Brazil and Colombia with ParisTech.

Several study paths are available for other incoming international students:

- ▶ Students with a BSc or a BEng degree can be admitted for the full 3-year course leading to prestigious *Diplôme d'Ingénieur* (Master of Science in Engineering).
- ▶ Students with a B.Sc. degree and a background in physics, optics and photonics can be admitted into year 2 of the *Diplôme d'Ingénieur* (Master of Science in Engineering) course for a 2-year period of study.
- ▶ Where agreements exist, students may be admitted for a Two-year period (L3 and M1) with return to their home university for completion of study (double-degree schemes).
- ▶ Students may also be admitted for the Master courses

Students in year 2 and 3 of *Diplôme d'Ingénieur* are eligible to take a Master degree simultaneously.

The academic year starts in early September.

CREDITS ONLY STUDENTS

Students with a B.Sc. degree can also apply as non-degree seeking students, for credits only, for one semester or one year.

If their mobility is covered by an agreement with their home university (Erasmus+ or other exchange agreements), they will be exchange students (tuition waived).

Most courses can be followed in English in M1 year.

LANGUAGE OF TUITION

- ▶ The main language of tuition is French for the *Diplôme d'Ingénieur*, with English as a second language.
- ▶ Most courses in M1 year and beyond are taught in English.
- ▶ French as a foreign language classes are available on the Paris-Saclay site.
- ▶ All PhDs can be undertaken in English, on all sites.

ACCOMMODATION

- ▶ International students are generally housed in comfortable halls of residence on campus within easy walking distance of the Institut in Paris-Saclay.
- ▶ The campus has a subsidised restaurant, excellent library and sports facilities, shared kitchens and a rich social life. Accommodation in other local halls of residence is also available.
- ▶ Assistance will be given to students seeking accommodation in Bordeaux and Saint-Étienne.





PARIS-SACLAY CAMPUS



BORDEAUX CAMPUS



SAINT-ÉTIENNE CAMPUS

FURTHER INFORMATION

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www.institutoptique.fr



[www.twitter.com/institutoptique](https://twitter.com/institutoptique)



www.facebook.com/institutoptique



www.youtube.com/supoptique

