

# EDUCATION PROGRAMME

## MASTER OF SCIENCE IN ENGINEERING DEGREE (DIPLÔME D'INGÉNIEUR.E)

# SupOptique

### OVERVIEW

Since 1917, Institut d'Optique is the higher education and research institution of photonics in France and worldwide leader in this field for education, research and innovation.

The education programme is designed to train SupOptique engineers, providing them with:

- An unrivalled level of scientific and technological expertise in photonics
- A comprehensive training to the professions of engineer
- A graduate school open on the world.

### EDUCATION TRACKS

- 20 different thematic tracks
- A dedicated education (regular, entrepreneurship, co-op / apprenticeship programme in a company)
- 80% of the courses offered in English from Master 1<sup>st</sup> year onwards
- A wide choice of double-degrees in France and abroad.

### CAREERS

- The average hiring time for the graduates is 2 weeks
- When starting their careers, SupOptique engineers work in majority in R&D, either in companies or in academic research. 15% create their start-up company
- After 5 years, SupOptique engineers become project managers, unit managers, product managers or executive managers in companies mainly involved in photonics
- Employers are active in aerospace, defense, lasers, automotive, lighting, biomedical and telecommunications industries. 10% of the graduates chose finance or auditing.

#### Programme

Scientific  
courses

Occupational training  
for engineers



#### A well-balanced curriculum

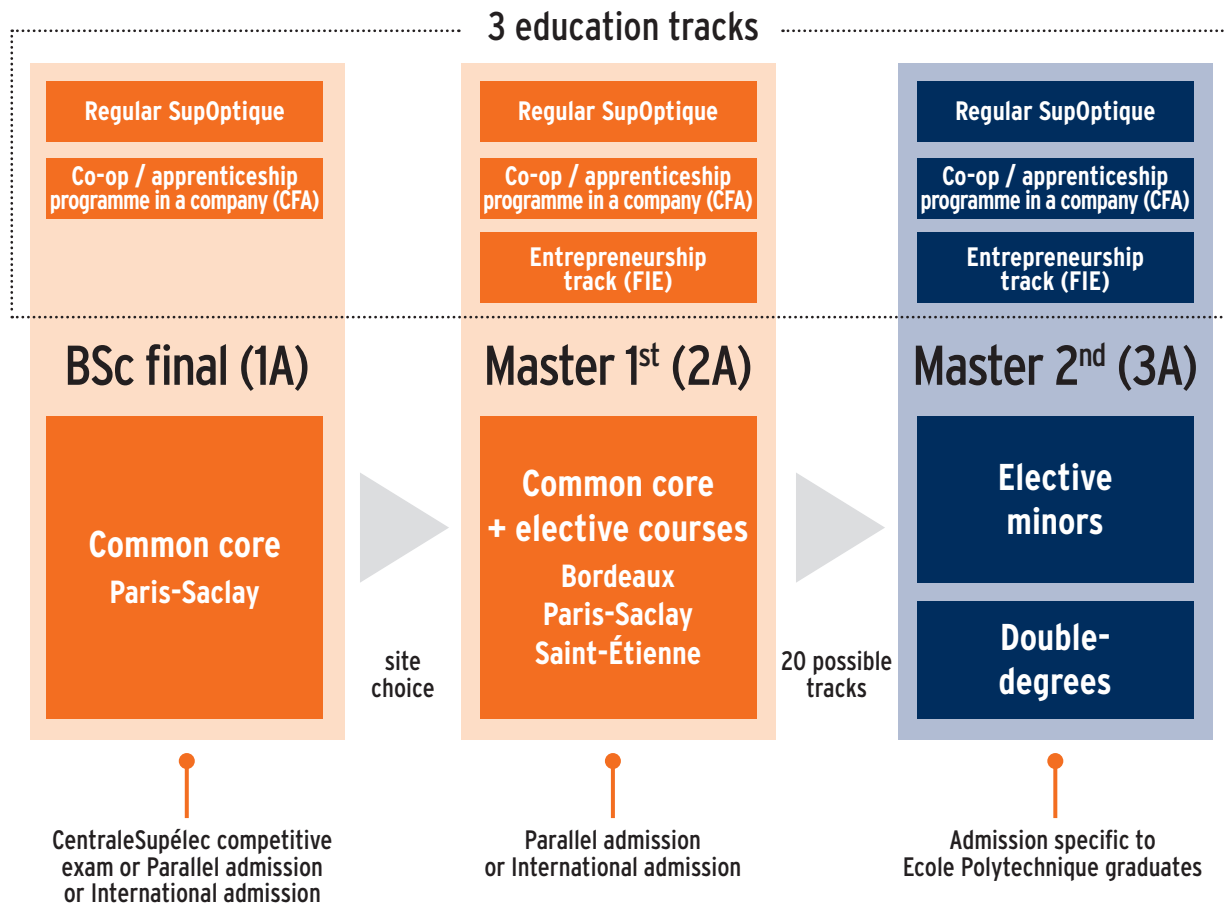
Internships

Lectures/Tutorials  
(80% in English from Master  
1<sup>st</sup> year onwards)



Labwork/Projects

# 3 EXCELLENCE TRACKS FOR AN A-LA-CARTE EDUCATION



université  
PARIS-SACLAY

université  
de BORDEAUX

UNIVERSITÉ  
JEAN MONNET  
SAINT-ÉTIENNE

ESPCI PARIS

HEC  
PARIS

IFSBM  
INSTITUT DE FORMATION  
SUPÉRIEURE BIOMÉDICALE

## A STRONG Foothold IN R&D A CLOSE LINK WITH COMPANIES

### RESEARCH AT THE HEART OF TEACHING

Institut d'Optique hosts three outstanding research centres, operated by faculty staff of worldwide renown. Their expertise in optics and photonics is at the core of the school's education approach.

### COHORT SPONSORS

Each cohort of students is sponsored by a high-tech company, such as Thalès, Nokia, Safran, ArianeGroup/Sodern, Lumibird, HGH Infradred, ...

### THE 503, FIRST ENTREPRENEURSHIP CENTRE IN PHOTONICS IN THE WORLD

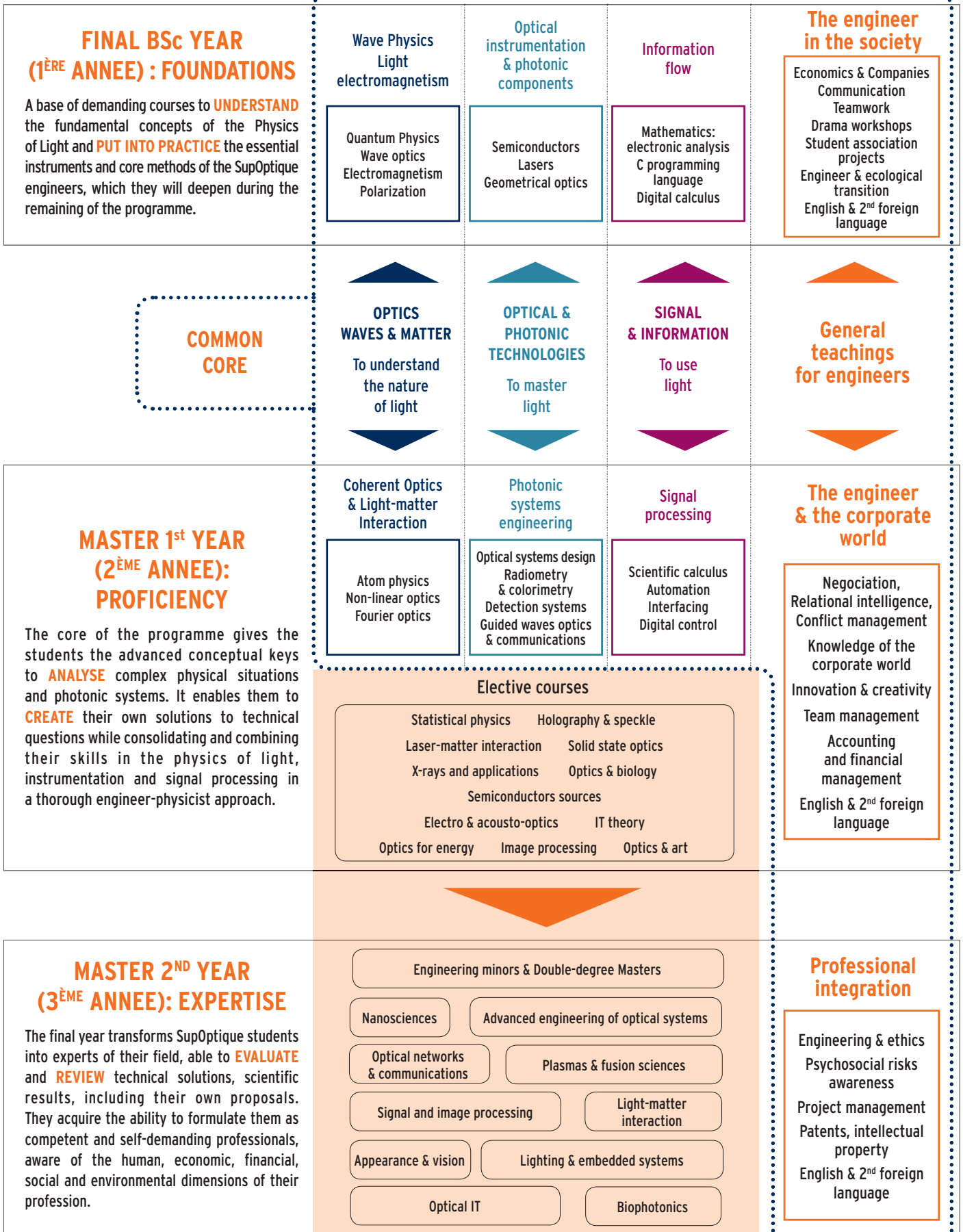
503 gathers, in a same location, engineering students in the entrepreneurship track and innovative companies. Students learn from the experience of field actors in this ecosystem dedicated to innovation.

A degree programme that brings together fundamental physics concepts and technological innovations

# EDUCATION

## AT SUPOPTIQUE

### MASTER OF SCIENCE IN ENGINEERING



# A 3-STEP CURRICULUM:

## UNDERSTAND, MASTER, APPLY

BSc  
FINAL  
(1A)

**Common core - UNDERSTAND - PRACTICE**  
Photonics, Physics, App maths, Digital, Electronics  
Training to the professions of engineer

Internship  
(1 month)

MSc  
1<sup>st</sup>  
(2A)

**Common core - MASTER - ANALYZE**  
Photonics, Physics, App maths, Digital, Electronics  
Training to the professions of engineer

Internship  
(3 months)

*Gap-year possibility (12 months)*

MSc  
2<sup>nd</sup>  
(3A)

**Elective minors - APPLY - EVALUATE**  
or double-degrees (FRANCE or INTERNATIONAL),  
or masters in research or specialized masters

Internship  
(6 months)

**Master of Science in Engineering degree (Diplôme d'ingénieur-e) from Institut d'Optique**

100%

of the students have an experience  
abroad of at least 16 weeks (12 weeks  
for the co-op/ apprenticeship track)

30%

30% of the students  
in an international track

# A TYPICAL WEEK

## AT SUPOPTIQUE

	Monday	Tuesday	Wednesday	Thursday	Friday
9H	Labwork / Projects	English	Labwork / Projects	Lectures / Tutorial classes	Lectures / Tutorial classes
12H15		Computer science			
14H	Lectures / Tutorial classes	Opening project / Innovation / Entrepreneurship	2 <sup>nd</sup> foreign language	R&D conference	Students' associations / Sports
17H15			Humanities and social sciences		
		Individual tutoring			

### BEING PART OF AN ALUMNI COMMUNITY

Photonics worldwide is a community of researchers and engineers with a passion for the physics of light. SupOptique Alumni are part of these thriving people, companies and research centres. The Alumni association is present on campuses and accompanies students in their professional integration. It weaves strong networks between all the cohorts.