

# **ENTER A DOUBLE DEGREE PROGRAM WITH A FRENCH PARTNER SCHOOL**

**Earn a Graduate Engineer Degree  
from a French top-ranked School of  
Engineering and Applied Sciences**





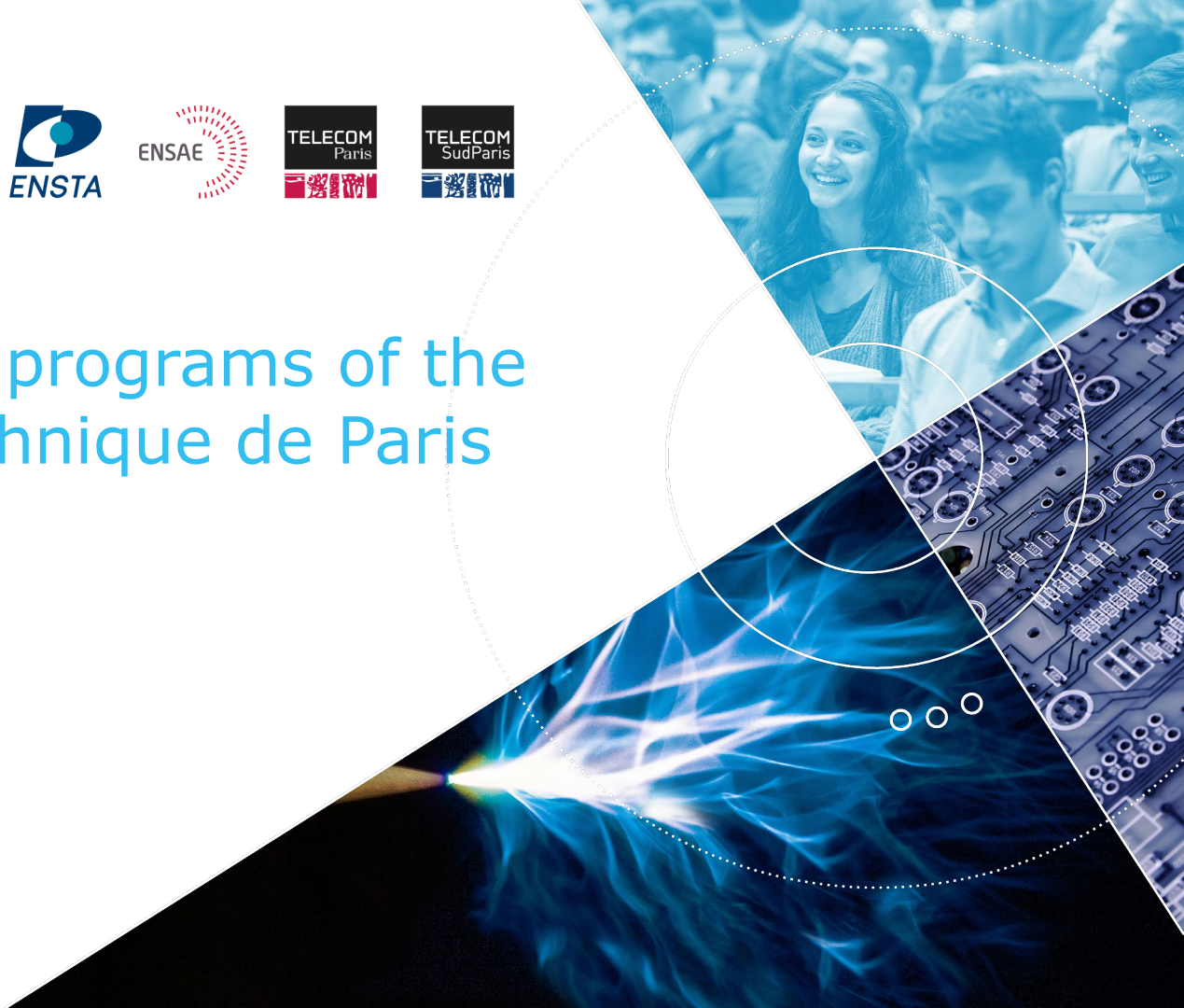
# Double-degree programs of the Institut Polytechnique de Paris

ENSTA Paris  
Telecom Paris

*International admissions*



**ip-paris.fr**



# WHY ENTER A DOUBLE DEGREE PROGRAM?

- French engineering schools offer many programs that will have you gain a valuable skillset in your area of choice.
- You get to study in two different countries, master two languages and experience two cultures.
- It enables you to develop your academic and professional networks at the global scale (through internships).
- It gives you an advantage over other candidates for any position / PhD program.
- It is a real asset to work later in a field where international exposure is key.



# WHY CHOOSE FRANCE?

- Excellence of the Higher Education system (20% of the national budget is devoted to education)
- French is the 3<sup>rd</sup> most important language for business in the world after English and Mandarin Chinese
- France is the 5<sup>th</sup> Economic Power in the World
- The country combines arts, history and quality of life with science, high technology & innovation
- 7<sup>th</sup> destination in the world for international students
- 9 out of 10 international students recommend France as first study destination



# WHY CHOOSE PARIS?

- 7<sup>th</sup> Named World's Best Student City (QS)
- 6<sup>th</sup> most innovative city in the World
- 70 000 foreign students (20% of students in Paris area)
- 95 500 researchers
- 816 000 companies & 1/3 of the foreign companies in France
- 1<sup>st</sup> Region in Europe for R&D



<https://www.topuniversities.com/university-rankings-articles/qs-best-student-cities/paris>  
<https://www.topuniversities.com/city-rankings/2019>



# WHY IP PARIS?

## A MODERN AND GREEN CAMPUS CLOSE TO PARIS

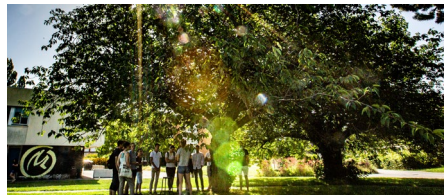
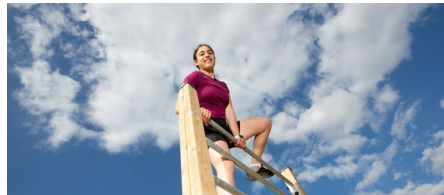


INSTITUT  
POLYTECHNIQUE  
DE PARIS

### TO STUDY



### TO LIVE



### TO INNOVATE



# EXCELLENCE IN EDUCATION



**Excellence since 1741**



**World's top 50 universities** (QS, CWUR)  
Shanghai world ranking: Math 37<sup>th</sup>, Physics 28<sup>th</sup>, Statistics 42<sup>nd</sup>



**> 95%**  
**Employability** rate 4 months after graduation



**50 000 euros/year**  
Average gross **salary** after graduation



**30%**  
**international** faculty members



# EXCELLENCE IN RESEARCH AND INNOVATION



Cross-disciplinary research



Leader in world-class research activities



Close collaboration with companies



Among top 8 innovation clusters  
In the world



High level of entrepreneurship



# THE *DIPLÔME D'INGÉNIEUR*



Bachelor



**Cycle ingénieur**



Master / MSc&T



PhD / PhD Track



Executive  
Master

Mastères  
spécialisés

Executive  
Education



3Y

3Y

2Y

2Y  
+ 3Y

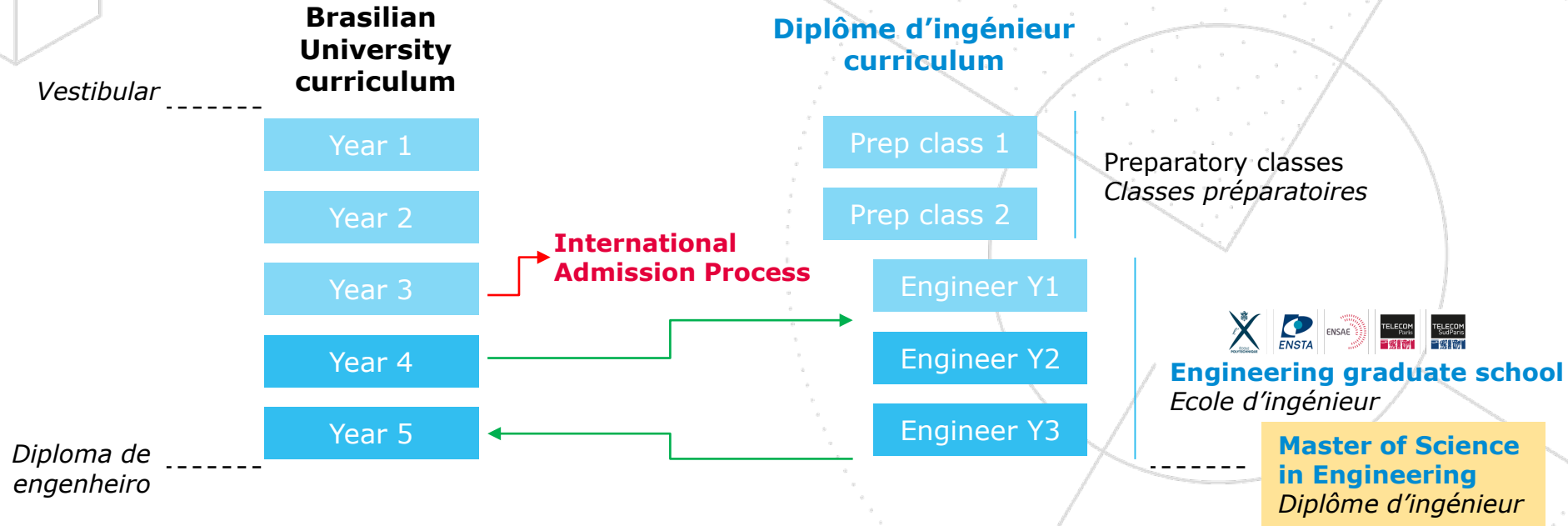
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# THE *DIPLÔME D'INGÉNIEUR*

- **Master's Degree** recognized worldwide
- **High level education** based on a highly selective system
- **Multidisciplinary education:**
  - Fundamental sciences: mathematics and physics particularly, chemistry
  - Engineering sciences
  - Economics
  - Business, management, innovation and entrepreneurship
- **Soft skills:** communication, critical thinking, social environment
- **International skills:** languages, geopolitics, mobilities
- **Strong interaction with companies:** several opportunities to carry out internships
- **Personalized curriculum**
- Possible combination with the **PhD-track**



# BRAZIL – FRANCE DUAL DEGREE MOBILITY



# REQUIREMENTS

- ✓ **Ongoing studies** in Science or Engineering at a partner institution with a double degree agreement with us



- ✓ Excellent background in **Mathematics, Physics** and **Engineering sciences**
- ✓ **French** or **English** proficiency
- ✓ **Global awareness**
- ✓ **Nomination by your University**



# International admission process

- **One Admission process:**

- Online application and nomination by your University : July to Sept 30

<https://admission.ip-paris.fr/>

- Notification of eligibility: October 8
- Interviews for pre-selected candidates: October 11 to October 29
- Selection of school preferences: October 30 to November 3
- Final acceptance from one school: November 15
- Reception of acceptance letters: December 2021 to March 2022
- Term starts: September 2022



# Tuition fees, cost of living and scholarships

## Tuition fees per year



Non-EU students	<del>4 650 €</del>	<del>4 150 €</del>
EU students	<del>2 650 €</del>	<del>2 650 €</del>
<b>Dual Degree students</b>	Y1: 930 € Y2: 1395 €	Y1: 0 Y2: 2 650 €

Estimated cost of living:  
800 € / month

- Fees are revised every year by each school and can be subject to modification
- Schools provide scholarships and or tuition fees reductions/exemptions (see websites)  
Grants, scholarships or loans can be available based on excellence or social criteria
- Other scholarship programs: **Eiffel excellence scholarships, French Government scholarships** (contact French Embassies), other programs (CSC, BRAFITEC...)
- Internships lasting more than 2 months must be paid.

# A MULTIDISCIPLINARY CURRICULUM



Chemistry, Biology and Health		
Economics and Quantitative Sociology		
Actuarial Science		
Energy	✓	
Nuclear Engineering	✓	
Computer Science and Artificial Intelligence	✓	✓
Information and Communication Engineering	✓	✓
Mathematics, statistics, Data Science	✓	✓
Engineering Mechanics	✓	
Physics	✓	✓
Transport, Mobility	✓	
Innovation, Entrepreneurship	✓	✓

*And also: Design, Innovation, Entrepreneurship, Sustainable development*

# ENSTA Paris at a glance

## Founded in 1741

800 students

~250 graduates every year

30% international students

2 offshore campus

30% women

6000 alumni

135 faculty members

650 lecturers (70% from industry)



## Education :

Transportation

Energy

Complex Systems Engineering

Mathematical Engineering

## Cross-disciplinary Research:

Applied Mathematics

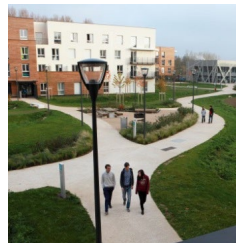
Mechanical Engineering

Computer Science & Systems Eng.

Chemistry and Chemical Eng.

Applied Optics

Applied Economics



430 apartments  
on the IP Paris Campus

# Engineer curriculum at ENSTA

## YEAR 2 - 1 Major & 1 Minor

### **Mechanical Engineering**

Sustainable energy  
Mechanical modelling  
Smart systems

### **Applied mathematics**

Mathematical engineering  
Mechanical & physical models

### **ICST**

Artificial intelligence  
& cyberphysics  
Software & cyber security

Law, economics, management,  
communications & languages  
Research project



## YEAR 3 - Specialization

**10 specialization tracks  
among 4 major fields:**

**Transportation**

**Energy**

**Mathematical Engineering**

**System Engineering**

Law, economics, management,  
communications & languages

**Graduation project**

# Year 3 - Specialization at ENSTA

## Transportation



## Energy



## Complex Systems Engineering



## Engineering Mathematics



Robotics  
Artificial intelligence  
Cybersecurity

Optimization and data sciences  
Modelling & simulation  
Quantitative finance

1  
specialization

Smart mobility and vehicle eng.  
Offshore transport and energy structures  
Energy production and management  
Nuclear power eng.

3 "profiles"

Engineering and design  
Research and innovation  
Entrepreneurship and Management

PhD track

Additional Master's degree from IP Paris





# Telecom Paris

150 professors  
1600 students  
including 44% international students  
17 500 alumni

630 international publications per year  
50% of research funded by companies  
153 active patents

## INNOVATE AND FOSTER ENTREPRENEURSHIP IN A DIGITAL WORLD



[www.telecom-paris.fr](http://www.telecom-paris.fr)

**We train top level professionals in digital by combining the fields:**

- Applied mathematics
- Computer science & engineering
- Physics, electrical engineering
- Economics & social sciences

according to 3 main profiles:

- Transformers
- Entrepreneurs
- Inventors

Our research addresses the major issues of the digital revolution:

- Data science & Artificial intelligence
- Digital trust: cybersecurity, risk, reliability
- Mathematic modeling
- Image and signal processing
- Human-machine interaction
- Internet of things
- Very large networks & systems
- Digital innovation



# Telecom Paris

## Innovation in training

Project-based teaching methods

Free access spaces: design studio, e-Lab, FabLab

Student innovation events

### Nb. 1 public French incubator in digital technology

(since 1999, over 440 start-ups created, 86% in activity, over €300M funding raised, 3,000 jobs created)

## Close links with industry

More than 300 partner companies

25 teaching and research chairs

12 joint laboratories

500 guest speakers from the business world

100 activities with companies for students

## An internationalized graduate school

100 partners in 39 countries

42 dual degree agreements in 18 countries

34% of international professors

34% of 1<sup>st</sup> jobs abroad

1 international shared campus in Shanghai: SPEIT

## programs taught in English

*Diplôme ingénieur  
Post-master*

Grafton Architects, Pritzker Prize 2020



## The French leading graduate school in ICT

Awarded professors: ERC starting & consolidator, best scientific paper, edX Prize, etc.

Famous Alumni : UBER, SIRI, LinkedIn, Google TV, ALTICE, Nao and Pepper robots

### THE

201-250<sup>th</sup> world university

126-150 in computer science

126-150 in engineering

### QS

64<sup>th</sup> worldwide in Computer Science

218<sup>th</sup> in Engineering Technology

301-350 in Mathematics

# Engineer curriculum at Telecom Paris

## YEAR 2

A tailor-made Program

### Courses

- 2x192h : 2 study tracks
- Scientific and Technical courses
- Personal & professional skills courses
- Projects
- Social Sciences
- Languages (2 to 3)
- Athens week

+

**1 to 2 month internship  
(Non mandatory)**



[www.telecom-paris.fr](http://www.telecom-paris.fr)

- 🇬🇧 Data Science
- 🇬🇧 Signal Processing for Artificial Intelligence
- 🇫🇷 Image
- 🇬🇧 Stochastic processes and scientific computing
- 🇬🇧 Applied Algebra : Cryptography, Quantum information, Coding theory
- 🇫🇷 Mathematics, Theoretical Computer Science and Operation Research
- 🇬🇧 Distributed Software Systems
- 🇫🇷 3D & Interactive systems
- 🇫🇷 Embedded Systems
- 🇫🇷 Infrastructures and Networks Security
- 🇫🇷 Large Digital Infrastructures
- 🇫🇷 Telecom: from data to systems
- 🇫🇷 Wireless networks and IoT
- 🇫🇷 Markets, Organizations, Data, Strategies
- 🇬🇧 Markets, Organizations, Data, Strategies

## YEAR 3

A career Preparation

- **Technological innovation**
  - 1 study track
  - + a Research & Innovation Project
  - + complementary elective courses (sciences, languages, humanities, etc.)

### Areas of specialization:

- AI, Image and Data Sciences
- Fundamentals of Mathematics & Computer Science
- Networks, IOT and Cybersecurity
- Digital systems
- Innovation

OR

- **Dual Degree of Science and Engineering**
  - Master degree with a French leading partner institution

+

**6 month internship**

# A global Alumni Network : ENSTA Paris Alumni

*A Wide Variety of Career Paths*



Cyril Del Pistoia  
(2011)



**Head of US  
Technical  
Account  
Management at  
Criteo**



Adriano Oliari  
Negris (2015)



**Advisor for  
innovation and  
digital  
transformation,  
Prefeitura de  
Salvador**



Luis Benetti  
Ramos  
(2017)



**Wind Energy  
Engineer at  
Bureau Veritas  
Group**

*Entrevista : <https://youtu.be/i9Mix5-hwSM>*

# A global Alumni Network : Telecom Paris Alumni

*V. B. (Eng. UNICAMP 2010, Ing. Telecom paris 2010) : Product Manager at Google, San Francisco*

*J.P. P. (Eng. EP-USP 2011, Ing. Telecom Paris 2011) : Senior Software engineer at Microsoft, Redmond, Washington*

*F. (Eng. EP-USP 2012, Ing. Telecom Paris 2012, Mes. ITA (2016) : Product Development Engineer at Embraer, São Paulo*

*E. de C. (Eng. PUC-Rio 2013, Ing. Telecom Paris 2012, Mes. PUC-Rio 2016) : Manager at Deloitte, Rio de Janeiro*

*I. M. G. (Eng. EP-USP 2013, Ing. Telecom Paris 2013) : Product Owner at ENGIE Brasil, Rio de Janeiro*

*B. L. (Eng. PUC-Rio 2019, Ing. Telecom Paris 2018) : Graphics Programmer at Beenox – Activision Québec, Canada*

*R. P. B. (Eng. EP-UFRJ 2019, Ing. & MSc. Telecom Paris 2019) : PhD Student at CEA Saclay - Medical Imaging and MRI Physics - Teacher Assistant at Paris-Saclay University*



# Questions and answers

[www.ip-paris.fr](http://www.ip-paris.fr)

<https://admission.ip-paris.fr/>

[dd-admission@ip-paris.fr](mailto:dd-admission@ip-paris.fr)



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