TELECOM PARIS

INNOVATE IN A DIGITAL WORLD

TELECOM Paris

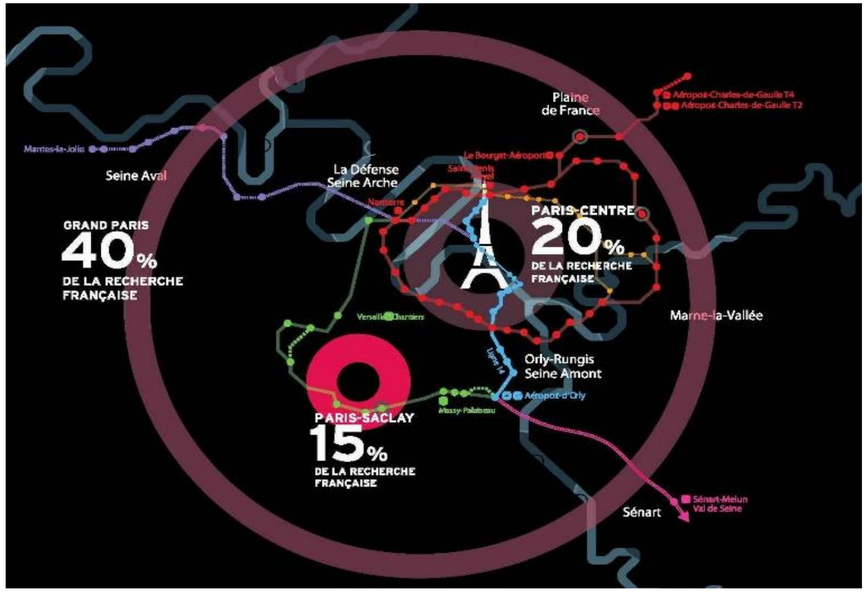
INSTITUT POLYTECHNIQUE DE PARIS

Founded in 1878

Paris : Leading economic region in Europe

The Paris region:

- 4.6% of total EU GDP – 669 B€
- 678,000 students – 75,000 intern. students
- > 1M companies
- 1st EU region for R&D and innovation
- 162,000 researchers and R&D engineers
- > 50% of French startups



Plateau de Saclay campus:

- 20% of French research
- One of the top 8 innovation clusters in the world
- 45,000 R&D jobs
- 360 labs - 30 research & education centers
- 65,000 students - 15,000 researchers
- 4 Médaille Fields – 3 Nobel prizes

A Campus in a Scientific & Research Ecosystem

DANONE
Research center

40mn to Paris by car

20mn to the airport

New reseach instiutes

EDF
EDF Lab

Subway

TOTAL
R&D center

cea

THALES
Research center

30mn to Paris by train

Mechanical engineering Institute

Our School

Square courtyard

Great Hall

Library

Relaxation room

Classroom

Language workshop

The #1 French Engineering School in Digital Technologies

UNIVERSITY

- **Top 40: 38th** world & **2nd France**
- **Top 80: 71th** world & **3rd France**
- **8th** world - THE Young University Rankings 2024

BY SUBJECT

- 34th Physics, 44th Maths
- 42th world & 2nd France in Computer Sciences, 99th world and 2nd France in Engineering
- 14th Maths, 21th Engineering & Tech., 31th Computer Science & IT, 45th Electrical & Electronic Eng.

EMPLOYABILITY

- 10th world & 1st France for employer reputation
- 12th world & 1st France - QS Graduate Employability Rankings

INTERNATIONAL OUTREACH

- 34th world & 1st France most international universities

<u>Telecom Paris rankings (rankings prior to IP Paris)</u>

- 1st school in Digital Technology
- 2nd French graduate engineering school
- 2nd best French engineering school according to student experience
- 6th (World) best small university
- 1st in internationalization
- 1st rank in proximity to companies

3 Major Profiles of Engineers

INVENTORS

Thanks to Excellence in Scientific Teaching:

Bruno MAISONNIER (83)
Creator of NAO and PEPPER

Vincent DUREAU (84)
TV technology for Google

Luc JULIA (95)
SIRI technology for Apple

ENTREPRENEURS

Thanks to an Innovative, Interactive and Project-based Pedagogy:

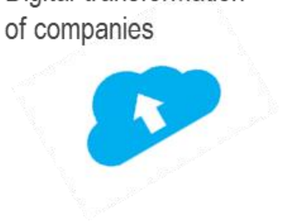
Céline LAZORTHES (08)
Leetchi Founder

Oscar SALAZAR (06)
UBER co-founder

Jean-Luc VAILLANT (90)
LinkedIn co-founder

TRANSFORMERS

Digital transformation
of companies



Thanks to Economics & Digital Social Sciences Teaching:

Elodie PERTHUISOT-ZIEGLER (01)
Executive Director E-commerce & marketing, Carrefour

Jean-Christophe LALANNE (83)
CIO, Air France-KLM

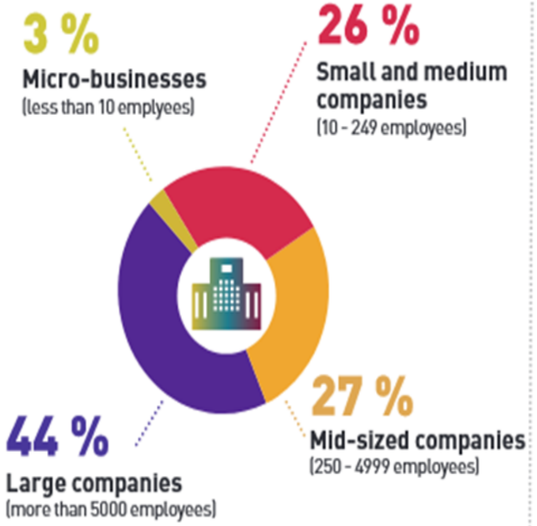
Yves TYRODE (91)
Digital Officer, BPCE

Excellent Employment Prospects

- **100%** of all graduates are employed **within 6 months** of graduating.
- **73%** found a job before graduation

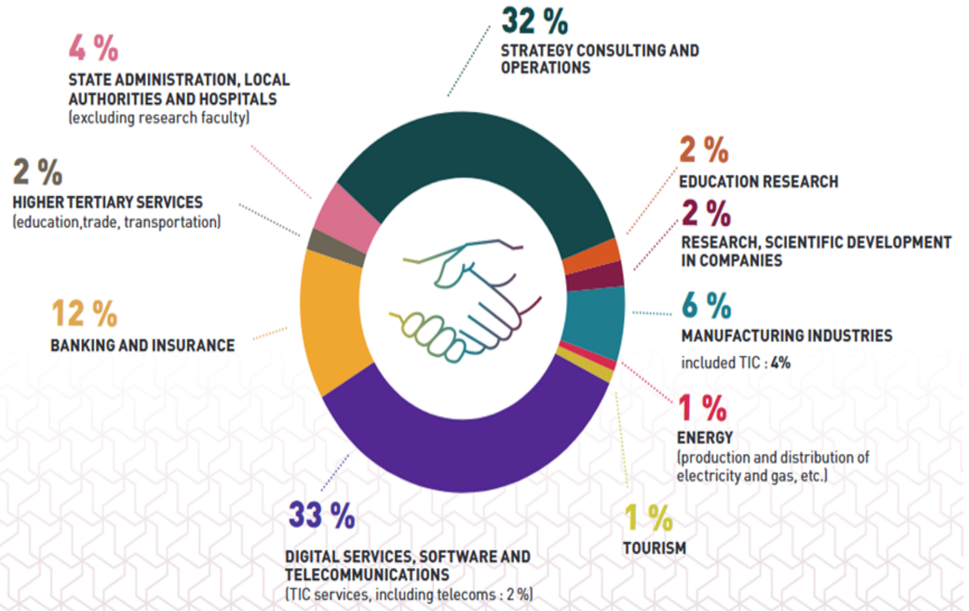
WHERE DO OUR 2022 GRADUATES WORK?

COMPANY SIZE



LOCATION

Source: 2023 1st Employment report - Job Survey of the last 3 graduating classes



SALARIES

AVERAGE ANNUAL GROSS SALARY WITH BONUSES :

48 050 €

France, 2022 graduates

l'Etudiant TÉLÉCOM PARIS

Ranking 2023

Tied for 1st on exit salaries

3 MONTHS AFTER GRADUATION *

75 % Employed

13 % PhD

3.5 % In further study

* 2022 Graduates

Corporate Relations

- **Governance**
  - Representatives on Boards, working groups, etc.
- **Education**
  - **> 500 guest speakers** from companies
  - **100 joint events** : Campus Recruitment Forum, company visits, “A day in the life” field visits, Round Tables, case studies, conferences, challenges, etc.
  - **Internships** and study projects
- **Research**
  - **16** teaching & research chairs
  - **9** joint laboratories
  - Experimental case studies
- **Entrepreneurship**
  - **Over 550 companies** launched since 1999, **86%** of which are still active
  - **3 start-ups per** month (Exotec,1st French industrial unicorn)
  - More than **5,500 jobs** created
  - **Over €1,100 M** raised since 2015

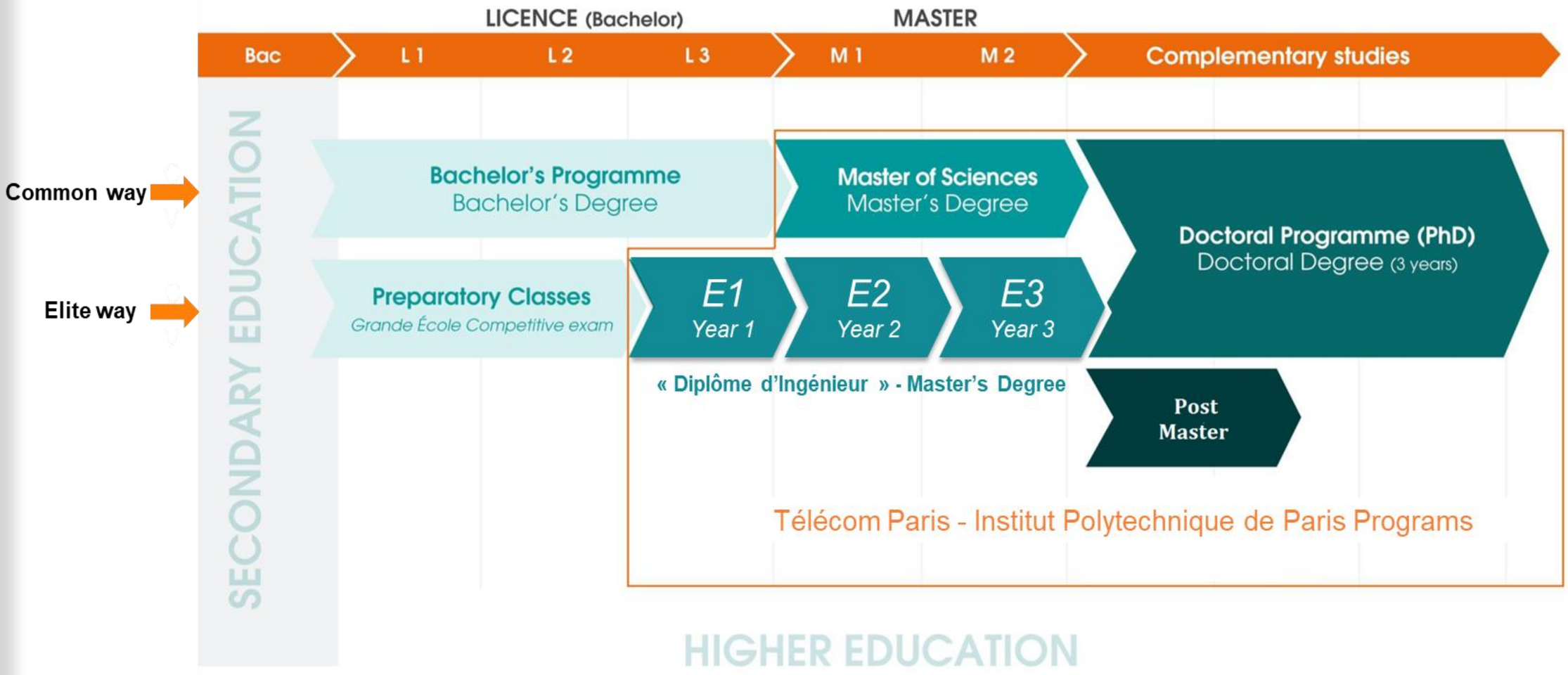
TELECOM Paris

IP PARIS

Master of Science in Engineering

« Diplôme d'ingénieur »

The specificities of the « Diplôme d'ingénieur »



A Unique Training Program

Scientific excellence

In Mathematics, Physics, Electronics and Computer Science - Highly selective entrance exam - high level professor-researchers – Recognized outstanding research

Multidisciplinary approach

Social sciences, economics, culture, management, law courses – small groups

Business orientation

Seminars on digital careers and fields, case studies, research chairs, internships, professional skills & methods, active alumni network, etc.

Innovation focused

Innovation facilities – entrepreneurship courses, innovation and research projects – interactions between labs and company R&D centers - incubators

International openness

45% international students on campus - 2 foreign languages – studies abroad

Year 2: a tailor-made Program

Specialization

2 study fields (among 14) = 2x192h

- 6 in English
- 8 in French

Scientific and Technical courses

- *Data Sciences*
- *Statistics*
- *Computer programming*
- *Optimization*
- *Machine Learning*
- *And many other specializations*

Complementary courses

- *Economy & Management*
- *Law*
- Contemporary humanities: entrepreneurship & innovation, etc.
- *2 languages*
- *Sociology*
- *Soft Skills*

40 ECTS

20 ECTS

14 Study Fields (2 Choices) – Year 2

AI & Data Sciences

- Data Science (SD)
- Signal Processing for Artificial Intelligence (TSIA)
- Image (IMA)

Mathematics & Computer Sciences

- Stochastic processes and scientific computing (MACS)
- Applied algebra, Cryptography, Quantum information, Coding theory (ACCQ)
- Mathematics, Theoretical Computer Science & Operation Research (MITRO)

Computer Systems, Interactive and Embedded

- Embedded Systems (SE)
- Distributed Software Systems (SLR)
- 3D & Interactive systems (IGR)

Networks, Communications & Cybersecurity

- Large Digital Infrastructure (GIN)
- Infrastructures and Networks Security (CYBER)
- Wireless networks and IoT (RIO)
- Telecommunications :Data to systems (TELECOM)

Economics & Digital Innovation

- Markets, Organization, Data, Strategies (MODS)

Year 3: Career Preparation Options

Télécom Paris
Technological innovation – 30 ECTS

1 study field - 12 ECTS
+ a "PRIM" Research & Innovation Projet - 12 ECTS
+ complementary elective courses (sciences, languages, humanities, etc.)

Areas: 12 options
IA : Interne Artificial Intelligence
ICSOC : Integration Circuits Systems and Communicating Objects
IGR : Advanced 3D & Interactive systems
IMA : Image
MACS : Interne Stochastic processes and scientific computing
QEng : Interne Quantum Engineering
GIN-RIO : Networks, Large Digital Infrastructures and the Internet of Things
MIN : Management, Innovation et Numérique (with Sciences Po)
SD : Data Science, Image and Artificial Intelligence
SE : Embedded Systems
SR2I : Infrastructures and Networks Security
SLR : Interne Advanced Distributed Software Systems

OR

Partnership Master 2 - 30 ECTS

DUAL DEGREES

INSTITUT POLYTECHNIQUE DE PARIS
Institut Mines-Télécom
École des Ponts ParisTech
université PARIS-SACLAY
PSL UNIVERSITÉ PARIS
SciencesPo.

+

6 month paid internship in France
30 ECTS *(1 semester)*

TELECOM Paris

IP PARIS

Admissions
Tuition Fees
Living costs
Scholarships
Accomodation
Campus Life

Admissions

- **Requirements**
  - Excellent academic background : marks and rankings
  - Languages:
    - A minimum B2 acquired level for English-taught study fields: Cambridge First Certificate, Cambridge Advanced & Proficiency test, TOEFL IBT, IELTS.
    - A minimum B1 acquired level for French-taught fields: DELF or DALF certificates
  - **Nomination** by your home university's international coordinator

- **Identify your study fields for your Double Degree program**

- **Send application files to: incoming@telecom-paris.fr**

  ✓ Engineering degree application form
  ✓ Motivation letter
  ✓ Curriculum vitae
  ✓ Official transcripts from at least the last 3 years
  ✓ A ranking certificate
  ✓ A copy of your passport or identity card
  ✓ At least 2 recommendation letters
  ✓ Copies of French language and/or English language certificate(s)

  In English or French

- **+ Motivation interview and in some case a Scientific interview**
- **Admission period: from September to November and results of admission in Mid-November**

After Your Admission

- **Reception of the admission letter**
- **Study Fields (Double degree) choice**
- **Student housing application**
- **Administrative steps:** for assistance, incoming@telecom-paris.fr
- **Intensive Summer French language course**
  - To prepare for your stay – mandatory for students under C1 level
  - Not compulsory for exchange students
- **Upon your arrival:**
  - Welcome campus tour
  - Enrolment and administrative assistance
  - Orientation week organized by the Student Union
  - For more information see the Welcome Booklet

Fees

Tuition fees

- European students: **€3 200* per year**
- Non-European students: **€4 850* per year**
- Real cost supported by the French Government: €19 000 per year

⇒ **For DD students, the 1st year is waived and the 2nd year is €3 200.** (Around 26 000 RMB)

Student and Campus Life Contribution (CVEC): €100*

CVEC is collected to promote social, health, cultural and sports support and assistance for students - https://cvec.etudiant.gouv.fr/

***2024/2025 Fees**

Average Living Costs

- Average living costs in Paris: ~ €900 / month
  - Accommodation: from €250 to €800 / month
    => Accommodation allowance from the French government (€100 to €200)
  - Public transportation card: Around €40/month (annual student pass)
  - “Sécurité sociale”: free
  - Complementary Healthcare: from €10 /month
  - A meal at the school cafeteria: from €1 to €6 (CROUS: ~ 1 to 3,30€)
  - Telecommunications: from €2 / month

Scholarships

- **French Government Grant**
  - **Eiffel Scholarship**
    - 1,180€ a month (24 months) + flights + healthcare + tuition fees waived + cultural activities + network

    ⇒ Only the best candidates can benefit from it

    ⇒ Application carried out by the International Office of Telecom Paris after admission
  - **France Excellence scholarship**
    - Please contact the French Embassy in Beijing or the French Consulate in Shanghai
- **Scholarships provided by your home country or through bilateral agreements**
  - China Scholarship Council (CSC)
- **Grants from Foundations (Telecom Paris)**
  - Alumni fundings

Accommodation

- **Located on campus, in the cities nearby and in Paris**
  - Look at the map on our website to locate various options
  - Dedicated assistance team to be contacted on logement@telecom-paris.fr
- **Apply to other private or public (Crous) housing**
  - Cité Universitaire in Paris, accessible by train
  - Other partnerships (listed on our website)
- **A room in a private home through “Sciences Accueil”**
  - Near the campus or in Paris / + Administrative assistance

Student life – Happy students

A Lively Campus Life

Student Union:
- ✓ *Integration activities, Ski Weekend, etc.*
- ✓ *Coordinates all clubs and association activities*
- ✓ *Buddy program by senior students*

Culture & Music:
- ✓ *Theater,*
- ✓ *Photos, videos*
- ✓ *Orchestra,*
- ✓ *Salsa,*
- ✓ *Télécom Sound & Magic,*
- ✓ *etc*

Sports:
- ✓ *One dedicated afternoon per week*
- ✓ *Organized by Bureau des Sports (BDS)*
- ✓ *15 disciplines: sailing, badminton, handball, tennis, volleyball, gym, rugby, etc.*
- ✓ *Access to numerous sport facilities on the campus*

Need more information?

- **Visit us**
  - www.telecom-paris.fr
  - Courses catalogue
  - 360° virtual tour
- **Contact us**
  - Information: international@telecom-paris.fr
  - Enrolments: incoming@telecom-paris.fr

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