

# ECOSYSTEM AND RANKINGS

Télécom Paris is the French leading school in digital technology. This public institution is recognized for its strong links with companies, ensures excellent employability rates in all sectors and is ranked number one among major engineering schools for digital technology. Offering excellence in teaching and innovative educational methods, **Télécom Paris is at the forefront of a unique innovation ecosystem founded on cross-disciplinary and interactive training, interdisciplinary research, incubators and accelerators for start-ups, and several campuses** (Paris, Sophia Antipolis, Shanghai). The school's laboratories have been recognized as leading forces in the fields of digital science, with remarkable international standing, impressive business volumes with the socioeconomic and corporate worlds, and a strong commitment to training.



IP Paris campus in Palaiseau



Eurecom campus in Sophia Antipolis



SJTU-ParisTech Elite Institute of Technology campus, in Shanghai

Founding member of Institut Polytechnique de Paris



FOCUS ON THE 2019 INTERNATIONAL RANKINGS



- > 188<sup>TH</sup> WORLD UNIVERSITY
- > 2<sup>ND</sup> FRENCH GRADUATE SCHOOL
- > 126-150 IN COMPUTER SCIENCE
- > 151-175 IN SOCIAL SCIENCES
- > 176-200 IN ENGINEERING TECHNOLOGY



- > 224<sup>TH</sup> WORLD UNIVERSITY
- > 3<sup>RD</sup> FRENCH GRADUATE SCHOOL
- > 101 - 150 IN COMPUTER SCIENCE
- > 112<sup>TH</sup> IN EMPLOYMENT RATE AND 2<sup>ND</sup> FRENCH INSTITUTION

# A GRADUATE SCHOOL OF ENGINEERING IN DIGITAL TECHNOLOGY

Télécom Paris is the number 1 French general engineering graduate school for digital technology. Its graduates enter the job market in all sectors of activity.

## TRAINING ENGINEERS AND EXPERTS IN DIGITAL TECHNOLOGY

### ENGINEERS IN DIGITAL TECHNOLOGY/ICT

Télécom Paris prepares graduates to address the challenges of the 21<sup>st</sup> century through digital technology:

- > Artificial Intelligence and Data Science
- > Cybersecurity
- > Human-machine interaction
- > Image and signal processing
- > Internet of Things
- > Very large networks and systems
- > Digital modeling

The training is based on knowledge of:

- > Mathematics,
- > Computer Science,
- > Physics,
- > Electrical engineering
- > Economic and Social Sciences.



*As a public institution, the engineering program is state-subsidized. Tuition is €2,650 per year for European students and €4,150 per year for those outside the EU. Students graduate with an international median annual salary of €53,000. Twenty-five percent of our students benefit from an entirely free education thanks to a generous scholarship program!*



### TÉLÉCOM PARIS TRAINS THREE MAIN TYPES OF ENGINEERS:

- > **Inventors**, thanks to the high scientific level of the teaching
- > **Entrepreneurs**, thanks to innovative, active, project-based teaching methods
- > **Transformers**, thanks to training in economic and social sciences



## POST MASTER'S DEGREES

## FOR FUTURE DIGITAL EXPERTS

Télécom Paris offers 12- to 16-month training programs to train experts in digital technology. The Post Master's degrees allow students with a Master's degree to enhance their initial training by adding a second area of expertise and expand their options through a stimulating environment and frequent contact with hiring companies.

### 12 Post Master's degrees:

- > Artificial Intelligence
- > Big Data Management and Analysis
- > Cybersecurity and Cyber Defense
- > Network Architecture Design and Cybersecurity
- > Network and Cybersecurity Architect
- > Embedded Systems
- > Smart Mobility
- > Mobile Networks, IoT and 5G
- > Corporate Digital Architect
- > Digital Project Designer
- > Information Systems and Networks Management
- > Regulation of the Digital Economy

## CONTINUING EDUCATION TO SUPPORT

## PROFESSIONALS IN THE DIGITAL SECTOR

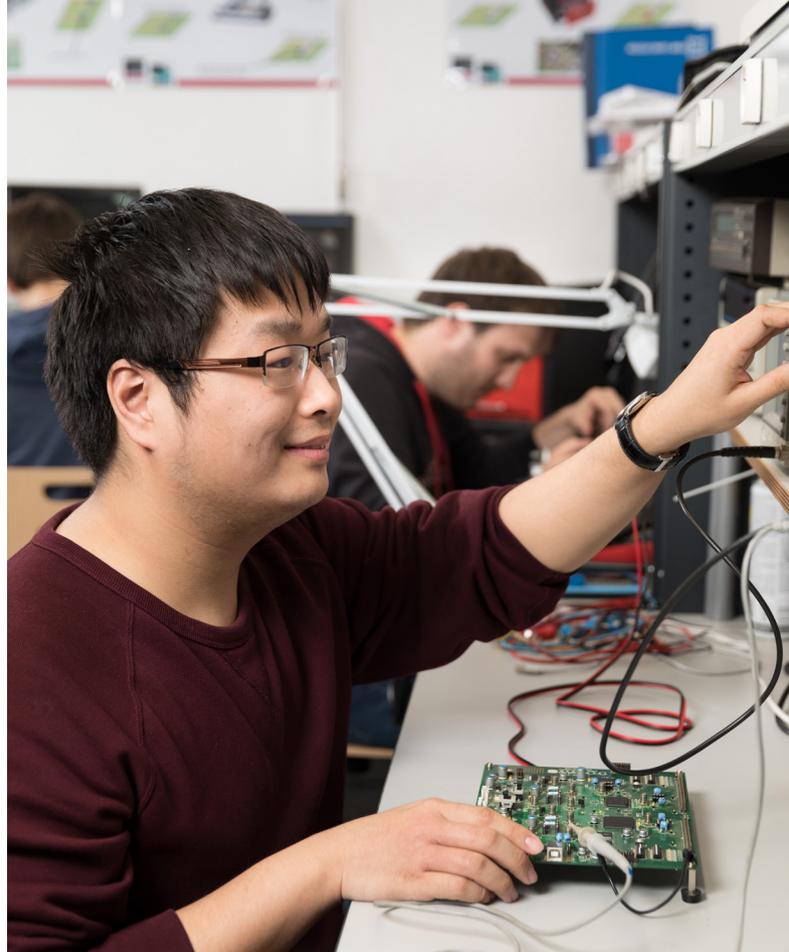
Télécom Évolution supports the careers of over 2,000 men and women by helping them develop skills to address key digital issues.

### Télécom Évolution offers:

- > Specialized Certificate Studies (CES)
- > Over 110 short internships
- > 16 digital courses and MOOCs

### in 9 fields of expertise:

- > Artificial Intelligence & Big Data
- > Cybersecurity
- > Internet of Things
- > Intelligent Transportation Systems and mobility
- > Data Transport Operator Networks
- > Information Systems and Business Networks
- > Advanced Communication Techniques
- > Management of the Digital Transformation
- > Audiovisual and Multimedia



## THE PHD AT INSTITUT POLYTECHNIQUE

## DE PARIS:

Télécom Paris trains more than 200 PhD students per year including 50% international students at its laboratories.

### Télécom Paris offers three types of PhD Theses:

- > **Basic and upstream research**, aiming for the highest level of experimental or theoretical scientific production;
- > **Research for application purposes**, in the area of rapidly developing technologies or methods with a view to medium-term prospects.
- > **Research for determined purposes**, geared at innovation and emerging markets through effective the use of recent scientific advances with a focus on intellectual property (patents, spin-offs, start-ups etc.).

### Télécom Paris enrolls PhD students in two doctoral schools:

- > The Institut Polytechnique de Paris Doctoral School
- > The Hadamard Doctoral School of Mathematics, co-accredited by IP Paris and The Université Paris-Saclay.

# HIGH LEVEL SCIENTIFIC RESEARCH

Télécom Paris in an internationally renowned research center dedicated to science, technology and digital innovation.

With its excellence in teaching and cutting-edge instruction, Télécom Paris is at the forefront of a unique ecosystem founded on cross-disciplinary and interactive training, research, two business incubators and several campuses.

**Télécom Paris research is conducted at 2 laboratories: the Interdisciplinary Institute of Innovation (i3)**, a joint laboratory with École Polytechnique and Mines ParisTech, and the **Information Processing and Communication Laboratory (LTCI)**. Both laboratories are recognized by their partnership-based research and by their excellence in outstanding scientific production both in quality and quantity.

**Télécom Paris focuses its research on 6 strategic cross-disciplinary areas** in order to address the challenges of the digital transformation:

- > Big Data, Data Science and Artificial Intelligence
- > Digital Trust
- > Very Large Networks and Systems
- > Design-Interaction-Perception
- > Mathematical Modeling
- > Digital Innovation



## KEY FIGURES IN 2018:

**> €10M**

in turnover for contract research

**50%**

of research funded by companies

**153**

active patents filed and international extensions

**> 600**

international publications

**> 20**

teaching & research chairs and joint laboratories with companies

**150**

research professors and permanent researchers

**> 200**

PhD students

**70**

post-doctoral researchers and R&D engineers

# INNOVATION & ENTREPRENEURSHIP IN A DIGITAL WORLD

## INNOVATION IN TRAINING

Télécom Paris places innovation at the heart of its training. Through project-based teaching methods, it encourages students to explore areas of innovation through research and entrepreneurship.

- > Cutting-edge educational projects throughout the training program
- > 3 spaces to design, create and manufacture: the design studio, e-Lab and FabLab
- > 1 student innovation day for presenting state-of-the-art projects to business angels
- > 1 Student Digital Entrepreneurship Chair

## AN INCUBATOR TO SUPPORT START-UPS

The Télécom Paris incubator is the number one of its kind for digital technology in France, with over 400 start-ups created since it was founded in 1999. The companies founded on site can then take advantage of the Télécom Paris start-up accelerator.



THE TÉLÉCOM PARIS

INCUBATOR

> **€300M**

in funding raised since the beginning

**45**

projects incubated per year

**410**

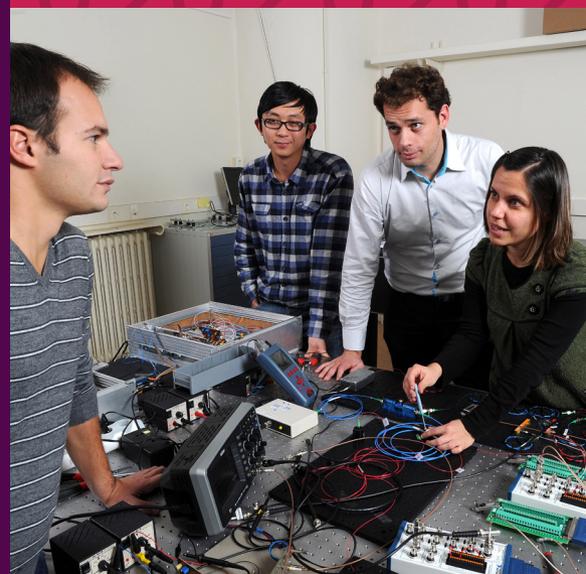
projects incubated since the beginning

**3,000**

jobs created since 1999

**86%**

Companies in business after 5 years



# INTERNATIONAL AND CORPORATE RELATIONS

## OPEN TO THE WORLD

With one of the highest rates of international students among major French engineering schools, Télécom Paris offers its students and research professors the opportunity to work and learn in an international context.

- > 3 months minimum abroad
- > 140 partners in 41 countries
- > 26% of graduates find their first job abroad
- > 48% international students in Paris
- > 75% international students in Sophia Antipolis
- > 1 campus in Shanghai

## CLOSE LINKS WITH COMPANIES

At Télécom Paris, the business world serves as a permanent reference for teaching, educational methods, research and innovation. The school offers its students nearly one hundred events in partnership with companies that bring them into contact with professionals from every type of company: major groups, SMEs, start-ups, etc.

## RESEARCH AT TÉLÉCOM PARIS IS CONDUCTED

## WITH COMPANIES

Companies provide academic stakeholders with actual cases for experimentation, thus confronting these cases with the frontiers of knowledge and stimulating innovation. Télécom Paris develops an active policy of teaching and research initiatives in partnership with companies, proactively supporting innovation.

The school has around **50 corporate partners** with connections and interactions that vary based on the level of partnership:

- > Development of their employer brand and hiring,
- > Involvement in training our students,
- > The benefit of Télécom Paris' excellence in research and boost in innovation.

17

teaching and research chairs

6

teaching chairs

12

joint laboratories

300

partner companies

500

guest speakers from the business world

100

activities organized with companies for students

## CONTACTS

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