# HARNESS
## YOUR FUTURE IN DIGITAL ENGINEERING

SHAPE

ENVISION

DESIGN

TELECOM
Paris

INSTITUT
POLYTECHNIQUE
DE PARIS

# SINCE 1878, PREPARING FOR THE FUTURE

## 1878 — FOUNDING THE L'ÉCOLE SUPÉRIEURE DE TÉLÉGRAPHIE
The invention of the electric telegraph by S. Morse in 1837 and the development of the telephone by A.G. Bell in 1876 quickly highlighted the need for specialized training.

## 1888 — L'ÉCOLE PROFESSIONNELLE DES POSTES ET TÉLÉGRAPHES
Ten years after its creation, the École Supérieure de Télégraphie underwent its first transformation, becoming the École Professionnelle des Postes et Télégraphes. It comprises two divisions: student engineers and student administrators.

## 1904 — COINING THE TERM TELECOMMUNICATION
É. Estaunié, a graduate of the École Polytechnique, senior civil servant, and director of the school, coined the term 'telecommunication' to unify the various equipment and disciplines taught at the institution.

## 1910 — CENTRE DE RECHERCHE EN TÉLÉCOMMUNICATIONS
The school's first research laboratory was set up, a Technical Studies and Research department, which was the forerunner of a national centre for telecommunications studies.

## 1921 — A RADIO BROADCASTING STATION AT THE SCHOOL
Shortly after the long-wave radio broadcasting transmitter was commissioned at the Eiffel Tower in 1921, the school established the first European medium-wave radio broadcasting station.

## 1934 — INAUGRATION OF RUE BARRAULT BUILDING
The school separated from the Technical Studies and Research Service. It left its previous premises to establish itself at 36 Rue Barrault, in the 13th arrondissement of Paris.

## 1942 — L'ÉCOLE NATIONALE SUPÉRIEURE DES TÉLÉCOMMUNICATIONS
The school is designated as the École Nationale Supérieure des Télécommunications. From this time onward, advancements in telecommunications technology and the emergence of television rapidly increased its significance.

## 2012 — FROM ENST TO TÉLÉCOM PARIS
The school has consistently stayed at the forefront of advancements in telecommunications technology. Through close collaboration with partners in both research and industry, the school delivers outstanding education at the core of the digital society. Its cutting-edge programs equip graduates to tackle the challenges of Big Data, Cybersecurity, 3D, Artificial Intelligence, and the entire spectrum of digital technologies.

## 2019 — INAUGRATION OF THE PALAISEAU CAMPUS
Télécom Paris joins forces with École Polytechnique, ENSTA Paris, ENSAE Paris, and Télécom SudParis to form the Institut Polytechnique de Paris. This institute positions itself as the College of Digital Innovation in Paris-Saclay. In 2024, École nationale des ponts et chaussées joined the group.

With Télécom Paris, become the engineer who envisions and undertakes to design models, technologies, and digital solutions that serve a society and economy respectful of both humanity and the environment.

Telecom Paris is a leading French engineering school in digital technology, recognized for its academic excellence and strong professional integration record, rated 28/30 for academic excellence and 20/20 for professional integration by L'Étudiant 2024.

We train our students across the entire spectrum of digital technology to equip them with the skills necessary to innovate and take initiative in a world where technology is ubiquitous. As an open laboratory, our teaching methods are innovative, and our teamwork and project-based approach will enable you to quickly acquire the most advanced knowledge and experiences in our fields.

Our world requires new skills to address the major social and environmental challenges of tomorrow. **Artificial intelligence, big data, machine learning, the Internet of Things (IoT), cloud computing, quantum computing, 5G mobile networks, blockchain, and cybersecurity**, along with their applications across all industrial sectors, are all scientific and technological fields in which we train our students. In an increasingly technological world,

Télécom Paris invites you to address social and environmental challenges by becoming the architects of tomorrow's solutions.

**Our school is multidisciplinary** and offers a comprehensive education in engineering. Graduates enjoy exceptional employability across all sectors, both in France and internationally. The strong connections established by the school with companies and alumni allow you to meet them frequently during your studies and to explore the wide range of potential career paths.

Your graduating class will include students from around thirty countries, providing you with a rich international experience. You will benefit from the support and guidance of the Student Union including the International Students Division.

Many pathways will be offered to you in your third year to broaden your horizons. You will have the opportunity to study at other prestigious engineering schools or universities in France. As a result, you will receive two degrees upon completion of the Télécom Paris engineering program.

Finally, upon arriving on the **Institut Polytechnique de Paris campus in Palaiseau**, our students benefit from an exceptional dynamic ecosystem that brings together academic, scientific, and industrial partners. Our schools—École Polytechnique, ENSAE Paris, ENSTA Paris, École nationale des ponts et chaussées (ENPC), Télécom Paris, and Télécom SudParis, along with HEC Paris as a privileged partner—pool their resources to enable their students to connect, access a wide range of expertise, and foster a vibrant and welcoming student life.

At Télécom Paris, you will have access to modern amphitheaters, classrooms, laboratories, and specialized workspaces designed to provide you with an exceptional education that aligns with the world-class teaching and research hub of Paris-Saclay.

# CONTENTS

# TÉLÉCOM PARIS: DARE TO SUCCEED

## AT THE HEART OF DISTINGUISHED CENTERS OF EXCELLENCE

**Télécom Paris is a founding member of the Institut Polytechnique de Paris,** a world-class institute of science and technology that brings together six prestigious schools: École Polytechnique, ENSTA Paris, ENSAE Paris, École nationale des ponts et chaussées (ENPC), Télécom Paris, and Télécom SudParis, as well as HEC, a privileged partner. This internationally-oriented group develops cutting-edge scientific research and offers training programs with the highest standards of excellence for all degree levels. It also guarantees excellent employment opportunities for its graduates.

**Télécom Paris** is a school of IMT (Institut Mines-Télécom), the leading French group of public engineering and management schools dedicated to higher education and research for innovation.

IMT's activities extend across regions within thirteen higher education insitutions in the French *Grandes Ecoles* tradition that train 13,000 engineers, managers, and doctors. IMT has partnerships with major institutions and companies in France and internationally through alliances or agreements, as well as the accreditation of two Carnot institutes.

## RANKED FOR EXCELLENCE

### QS Graduate Employability 2024 Rankings

**#1** in Europe

**#12** in the world

### L'Etudiant 2024 rankings

**Rated 28/30** for academic excellence

**20/20** for professional integration

**17.2/20** for international influence

## + 1700 STUDENTS

**960+** engineering students

**+130** new international engineering students/year

**26%** have been awarded scholarships

**24%** of our students are female

**500** Mastères Spécialisés® students

**238** PhD Students

**70** Postdoctoral researchers & R&D engineers

# TOP-RANKED SCHOOL FOR VERSATILE ENGINEERS

## TÉLÉCOM PARIS: INNOVATIVE
## WITH DIVERSE SKILL SETS

The Télécom Paris engineering program primarily recruits through the Mines-Ponts entrance exam, from École Polytechnique, and from the top European and global universities.

We are at the heart of future challenges and support the digital transformation of society by training future engineers to innovate and lead in a digital world.

*INNOVATIVE AND ENTREPRENEURIAL ENGINEERS AT THE FOREFRONT OF DIGITAL CHALLENGES*

### TRANSFORMERS

**Jean-Christophe Lalanne**
Class of 1983
**Senior Advisor for IT Strategy**
**Air France KLM**

### ENTREPRENEURS

**Céline Lazorthes**
Mastère Spécialisé in Management
of New Technologies, 2008
**Founder of Leetchi.com**

### INVENTORS

**Luc Julia**
PhD, 1995
**Creator for Apple's SIRI**

## POWER IN NUMBERS

### GLOBALLY

**+ 100** partnerships in **40** countries

**40** dual-degrees

**45%** International students

**1** international campus
ParisTech Shanghai Jiao Tong
with École polytechnique, ENSTA Paris
and Mines Paris

### RESEARCH

**160** full-time faculty and researchers

**570** international publications

**153** patents filed

**22** academic / research chairs and shared laboratoires
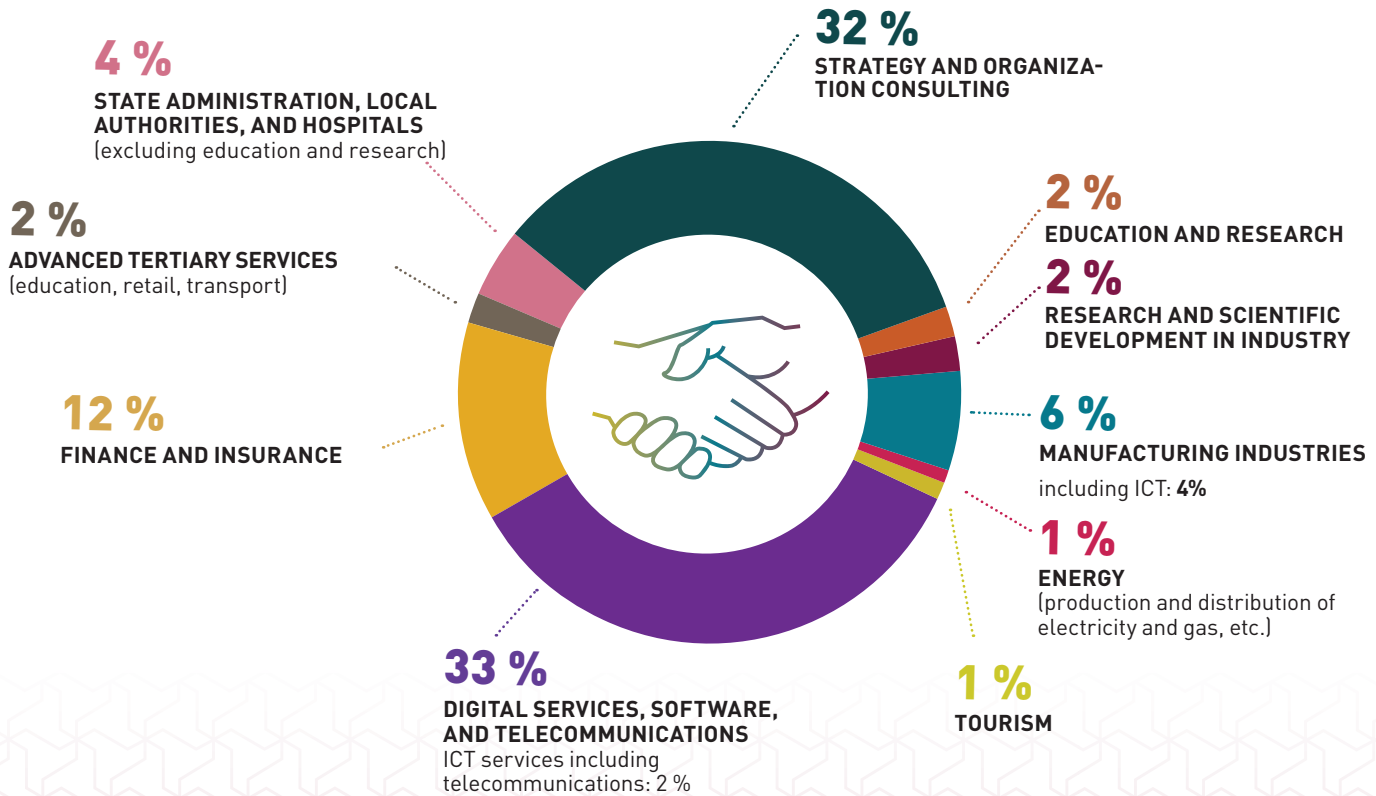
### COMPANY CREATION

**3** start-ups founded every month

**+500** created since 1999

including **86%** that are still active

# MULTIDISCIPLINARY ENGINEERING FOR EVERY SECTOR

**4 %**
STATE ADMINISTRATION, LOCAL AUTHORITIES, AND HOSPITALS
(excluding education and research)

**2 %**
ADVANCED TERTIARY SERVICES
(education, retail, transport)

**12 %**
FINANCE AND INSURANCE

**32 %**
STRATEGY AND ORGANIZA-TION CONSULTING

**2 %**
EDUCATION AND RESEARCH

**2 %**
RESEARCH AND SCIENTIFIC DEVELOPMENT IN INDUSTRY

**6 %**
MANUFACTURING INDUSTRIES
including ICT: **4%**

**1 %**
ENERGY
(production and distribution of electricity and gas, etc.)

**33 %**
DIGITAL SERVICES, SOFTWARE, AND TELECOMMUNICATIONS
ICT services including telecommunications: 2 %

**1 %**
TOURISM

*Graduate Employment Outcomes (2023 survey conducted among graduates from the classes of 2020, 2021, and 2022).*
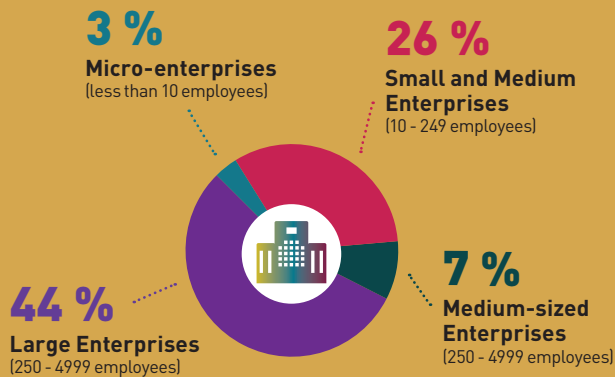
## JOB HUNT SUCCESS

**100 %** **of all graduates from the Class of 2022 signed their contracts within six months. leaving the school.»**

Of these, 73% secured positions before graduation, and 13% found jobs within two months.
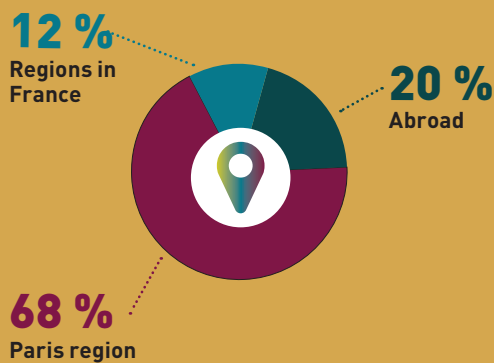
## CAREER PATHS
## FOR RECENT GRADUATES

### COMPANY SCALE

**3 %**
Micro-enterprises
(less than 10 employees)

**26 %**
Small and Medium
Enterprises
(10 - 249 employees)

**44 %**
Large Enterprises
(250 - 4999 employees)

**7 %**
Medium-sized
Enterprises
(250 - 4999 employees)

### WORK LOCATION

**12 %**
Regions in
France

**20 %**
Abroad

**68 %**
Paris region

## SALARIES
## OF OUR 2022 GRADUATES

**AVERAGE ANNUAL GROSS
SALARY INCLUDING BONUSES:**
### 48,050 €
IN FRANCE, 2022 GRADUATES

**TÉLÉCOM PARIS**
# #1
**Ranking Among Engineering
Schools for Starting Salaries**

(L'ÉTUDIANT 2023)

# UNLEASH THE POTENTIAL OF DIGITAL TECHNOLOGY

## PREPARE TO TACKLE THE CHALLENGES OF THE 21ST CENTURY

Digital technology is a key driver of innovation and growth, giving rise to new professions that bring change. It fuels our daily lives and is present in all sectors of activity:

- Technology industries
- Service companies
- High-tech enterprises
- Consulting firms
- Innovative SMEs (small and medium-sized enterprises)
- Research
- Large corporations
- Banks and insurance companies
- The media
- Public services

and many others!

These sectors are seeking innovative and skilled digital engineers who can manage complexity and are poised to meet the emerging challenges of the information society.

## THE DIGITAL LANDSCAPE

- Connected objects
- Smart cities and transportation
- E-health and agriculture
- E-commerce
- Social connections and networks
- Medicine, etc.

Objects are only intelligent because they are augmented, connected, and integral parts of large global systems:

- Wireless networks
- Routers and servers
- Satellites and optical links
- Software applications
- Artificial intelligences, etc.

Thanks to engineers who master the components of digital technology (mathematics, computer science, physics, social and economic sciences)

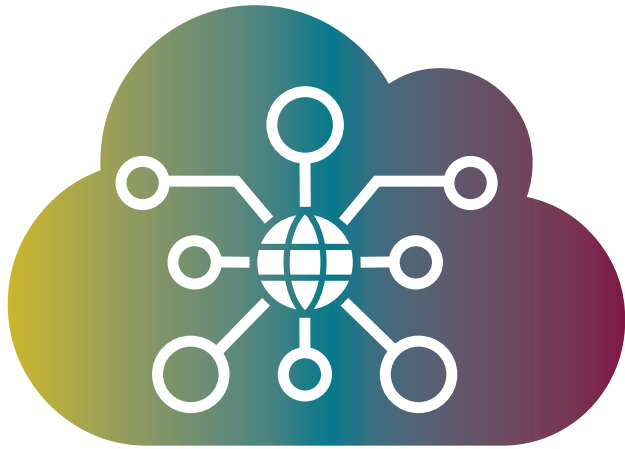## THEY ARE ENGINEERS AT TÉLÉCOM PARIS AND RISE TO THE CHALLENGE!

**Bruno Maisonnier**
Engineering Class of 1983
Founder of Aldebaran Robotics

**Jean-Luc Vaillant**
Engineering Class of 1990
Co-founder of LinkedIn

## DIGITAL TRANSFORMATION OF EVERYDAY LIFE

- Emergence of the collaborative economy
- New exchanges of goods and services
- New consumption spaces
- Ever-changing consumer modes

**THE DIGITAL WORLD IS TRANSFORMING OUR WORLD**

- New achievements are making accessible what recently seemed like utopias
- Advances in medicine lead to human enhancement
- The emergence of artificial intelligence in our daily lives
- Agriculture of the future and the reduction of hunger in the world
- Democratization of access to knowledge

...

## DIGITAL TRANSFORMATION OF THE ECONOMY

- Automation of production processes through robotics and artificial intelligence
- New values and policies regarding personal information
- Disruption of traditional mechanics in the classical economy

**Claude Terosier**
Engineering Class of 1997
**Founder of MagicMakers**

**Élodie Perthuisot**
Engineering Class of 2001
**Chief E Commerce Officer, Carrefour**

**Oscar Salazar**
PhD 2006
**Co-founder of Uber**

# YOUR ENGINEERING TRAINING AT TÉLÉCOM PARIS

## A COMPREHENSIVE CURRICULUM AND NUMEROUS OPPORTUNITIES

### 1ST YEAR

**CORE CURRICULUM**

**THE FOUNDATIONS OF THE INNOVATIVE ENGINEER**

Courses, projects, and a Personal Development internship

### 2ND YEAR

**PERSONALIZED TRAINING**

Choice of 2 academic tracks
from 14 + core courses

### 3RD YEAR

**PREPARE YOUR CAREER**

**TECHNOLOGICAL INNOVATION**

1 option from 12 +
Research Innovation
Master Project
(PRIM)

**DUAL DEGREE MASTER OF ENGINEERING**

Master's program at a
school within the Institut
Polytechnique de Paris
or at a partner university
(dual engineering degree) +
Master's degree

**MULTIDISCIPLINARY PARTNERSHIP**

Transverse
andcomplementary Master's
program or dual excellence
degree with partner schools
in France

**INTERNATIONAL OPTION***
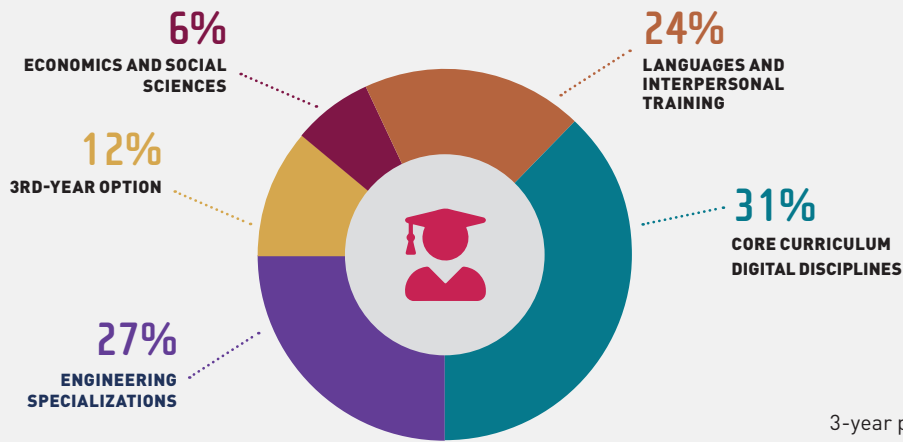
Study abroad program:
Dual degree or
Exchange program
(e.g., Erasmus)

**A SIX-MONTH ENGINEERING INTERNSHIP**

**AN INTERNATIONAL EXPERIENCE**

*For international students, the option is offered only within the framework of a three-year program.

# THE ENGINEERING CURRICULUM TÉLÉCOM PARIS

**6%**
ECONOMICS AND SOCIAL SCIENCES

**12%**
3RD-YEAR OPTION

**27%**
ENGINEERING SPECIALIZATIONS

**24%**
LANGUAGES AND INTERPERSONAL TRAINING

**31%**
CORE CURRICULUM DIGITAL DISCIPLINES

3-year program

# APPRENTICESHIP TRAINING

Since the start of the 2019 academic year, Télécom Paris has offered an engineering program through apprenticeships that leads to the same degree as the traditional engineering track. This program is primarily open to students from a University Bachelor of Technology (formerly DUT).

## 1ST YEAR
### FULL TIME CORE CURRICULUM
### FOUNDATIONS OF INNOVATIVE ENGINEERING

Courses, projects, and a Personal Development internship

## 2ND AND 3RD YEARS

### AN ORIENTATION IS POSSIBLE THROUGH APPRENTICESHIPS

Themed pathway consisting of courses, projects, languages, interpersonal development, and on-the-job experience

### 4 CHOICES
Cybersecurity
Artificial Intelligence
Networks, Telecommunications, and the Internet of Things
Embedded Systems

**FOR EACH YEAR**
**27 positions are available**

**SCHEDULE**
**3 days of classes**
**2 days in the workplace**

# YOUR 1ST YEAR
# INNOVATIVE FOUNDATIONS

AT TÉLÉCOM PARIS, WE PRIDE OURSELVES ON HAVING SMALL CLASS SIZES THAT ALLOW FOR MORE TAILORED LEARNING AND THAT INCLUDE STUDENTS FROM HIGHLY SELECTIVE PREPARATORY CLASSES FOR THE FRENCH GRANDES ÉCOLES, UNIVERSITY PROGRAMS, AS WELL AS STUDENTS FROM ÉCOLE POLYTECHNIQUE, ÉCOLE NORMALE SUPÉRIEURE, AND INTERNATIONAL STUDENTS FROM OTHER WORLD-RENOWNED INSITUTIONS.

## THE CORE CURRICULUM
## PROVIDES A STRONG FOUNDATION
## FOR YOUR ENTIRE CAREER

Divided into groups, you will explore the courses that you can further delve into later.

**APPLIED MATHEMATICS AND DIGITAL COMMUNICATIONS**

- Analysis
- Probability and Statistics
- Digital Communications and Information Theory
- Tools and Applications for Signal, Images, and Sound

**COMPUTER SCIENCE**

- Logic Gates, Operating Systems
- Logic and Foundations of Computer Science
- TypeScript for the Web
- Object-Oriented Programming in Java
- Contribution to Open Source Software
- Networks

**EXPLORING THE BUSINESS WORLD**
*To learn about and grasp the role and responsibilities of digital engineers.*

- Company visits
- Speaker series: *Exploring Careers in Digital Engineering*

**PHYSICS, ELECTRONICS**

- Optics and Photonics
- Propagation and Antennas in Radio Systems
- Electronics
- Micro- and Nano-Physics

**ECONOMIC AND SOCIAL SCIENCES**

- Introduction to Economics
- Practices and Analysis of Written Communication
- Technology and Society
- Introduction to Management
- Entrepreneurship and Digital Innovation

## THE PERSONAL
## DEVELOPMENT INTERNSHIP
## OFFERS A HANDS-ON EXPERIENCE

Ranging from 1 to 2 months during the summer after the first year, this internship allows you to experience life in a company, in an organization, or through humanitarian work.

**The choice of internship is flexible and can take place in France.**

**Internship highlights:**

- Nathan A. - **Development of predictive algorithms** at I Know First in Tel Aviv, Israël

- Grégoire B. - **Mission at an orphanage** in Cochabamba, Bolivia

- Mohammed C. - **Introduction to data science** at OCP in Casablanca, Morocco

- Stanislas B. - **Graph reduction application based on machine learning at CAST** at CAST, New-York, USA

- Laure P. - **Experience as a stage technician** at the National Theatre in Mannheim, Germany

- Guillaume D. - **Maintenance of an orchard and vegetable garden** at Dalby Nybygget Farm in Uppsala, Sweden

## COLLABORATIVE PROJECTS TO FOSTER CREATIVITY AND INDEPENDENCE

**Team project (1st semester)**
Throughout the first semester, students, organized into groups of 4-5, will carry out a project focused on digital technologies. Each group is given an objective and the resources to achieve it, then encouraged to take initiative and demonstrate creativity.

**Application project (2nd semester)**
Teamwork, project management, and tackling the complexity of real-world problems. Each student group selects a topic and dedicates half a day per week throughout the semester to complete it.

## INTERDISCIPLINARY COURSES TO BROADEN YOUR HORIZONS

**Personalize your path with cross-disciplinary courses**

- 2 to 3 languages from a selection of 11
- Cultural Enrichment
- Personal development seminars focused on creativity, leadership, communication, or innovation.

Theme examples, to name a few: Male-Female Dynamics in the Workplace; Managing and Team Collaboration; Equality of Opportunity in Education and Social Engagement; Client Relations in Consulting Professions

**A week between semesters to explore a scientific theme or discover a new field:**
Introduction to cybersecurity, satellite telecommunications, quantum technology, astroinformatics, artificial intelligence, etc. are a few examples of interdisciplinary courses offered during the inter-semester.

# 2 YOUR 2ND YEAR PERSONALIZED TRAINING

## MASTER SPECIALIZED FIELDS
### AND THEIR AREAS OF APPLICATION

Upon your arrival at Télécom Paris, you will find:

- High-quality instruction
- Awareness of opportunities for further research studies
- Exclusive meetings with companies
- Numerous pathways available in the third year
- International exchange programs

## PROGRAMS TAUGHT IN ENGLISH

Pursue an English-taught curriculum in your 2nd and 3rd years by selecting two specializations from the following options:

- Distributed software systems
- Random modeling & scientific computing
- Signal processing for artificial intelligence
- Data science
- Markets - Organization - Data - Strategy
- Applied algebra
  Mobile networks and IoT
  3D and Interactive Systems

An internationally-focused program within a robust innovation ecosystem

**In the second year, you will choose two majors from a selection of 14:**

**ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**
- Data Science (in English)
- Signal Processing for Artificial Intelligence (in English)
- Image

**MATHEMATICS AND COMPUTER SCIENCE**
- Random Modeling and Scientific Computing (in English)
- Applied Algebra (in English)
- Mathematics, Theoretical Computer Science, and Operations Research

**ECONOMICS AND DIGITAL INNOVATION**
- Markets-Organization-Data-Strategy (in English)

**NETWORKS, COMMUNICATIONS, & CYBERSECURITY**
- Major Digital Infrastructures
- Mobile Networks and IoT (in English)
- Network and IT Infrastructure Security
- Telecommunications: From Data to Systems

**COMPUTER, INTERACTIVE, AND EMBEDDED SYSTEMS**
- Embedded Systems
- Distributed Software Systems (in English)
- 3D and Interactive Systems (in English)

**HUMANITIES & SOCIAL SCIENCES**
Because a Télécom Paris engineer must understand how digital technology is transforming economies and societies, you will receive training in economics, law, the sociology of digital technology, general culture, management, and languages.

**PROJECTS INTEGRATED THROUGHOUT THE CURRICULUM**
Throughout your three years, you will lead innovative collaborative projects in partnership with companies and research labs.

*After two years in intensive preparatory classes, I chose Télécom Paris to continue my studies in computer science. Following a first year that introduced me to many fields, I opted for the Embedded Systems track in my second year. I gained numerous solid skills and knowledge thanks to a good balance between theory and practice. I have a lot of fun and thrive in these activities.*

*Another strong point of Télécom Paris is its vibrant and active student life. Personally, I discovered the world of audiovisual production through the Comète association, even though I had hardly ever touched a camera or a photo device in my life. The cohesion among the cohorts allowed me to learn a great deal, and the wide variety of student activities enables everyone to connect with their passions and interests.*

**FLORIAN TARAZONA**
**CLASS OF 2023**

## THE ADVANTAGES OF OUR CURRICULUM

> A vast selection of courses, programs, and options
> Genuine freedom for organization and creativity
> A thriving ecosystem within the Paris-Saclay framework
> A comprehensive range of services for students

*The Télécom experience is truly exceptional as it allows us to benefit from a wide range of training options and close connections with businesses, whether through corporate relations or the Télécom Paris Forum Job Fair. Additionally, it offers the richest student life on the plateau Paris-Saclay. The various student associations at Télécom enable us to explore new and diverse experiences and also to create new clubs and associations for activities or causes that matter to us.*

*After three years of a dual degree in mathematics and computer science, I arrived at Télécom Paris in September 2020. The first year was broad and multi-disciplinary, allowing students to choose two specializations in the second year. In my second year, I narrowed down my focus to cybersecurity and data in market organization and finance. The wide selection of programs at Télécom allowed me to broaden my horizons.*

*I then went on to apply for an exchange program in Canada at Polytechnique Montréal, which helped me complete my academic year. Thanks to the support of the Corporate Relations Department, I was optimistic about my job search, and thanks to Télécom's reputation, I'm confident about my future.*

**CHAIMA BELHOULA**
**CLASS OF 2023**

## RESEARCH PATHWAY: WHERE VISION MEETS EXPERTISE

You can replace one of your two second-year specializations with a research initiation program. Based on a research topic proposed by a faculty researcher at the school, you can work independently in a laboratory for half a day each week. In the first semester, you will learn how to establish a literature review on your topic. Then, in the second semester, you will write your first research article, which you will present at the end of the year in front of your peers.

This program can continue into your third year with an internal option associated with a Research Innovation Master Project (part-time for one semester) or by applying to the PhD Track at the Institut Polytechnique de Paris.

# 3<sup>RD</sup> YEAR
# PURSUE YOUR AMBITIONS
# LAUNCH YOUR CAREER

You have several options available to you, all maintaining the same level of excellence.

In your third year at Télécom Paris, you will have the opportunity to prepare for the career of your choice, tailored to your profile:

**Transformers**: Supporting businesses and administrations in their digital transformation
**Innovators**: Advancing fundamental and applied research in both private and public sectors
**Entrepreneurs**: Contributing to the economy and driving innovation

You can choose from one of the following options:

- **INTERNATIONAL TRACK***
- **TECHNOLOGICAL INNOVATION**
- **MULTIDISCIPLINARY PARTNERSHIP**
- **MASTER-ENGINEER DUAL DEGREE**

# THE WORLD
## IS AT YOUR FINGERTIPS [2]

## PLUS A 6-MONTH ENGINEERING INTERNSHIP IN FRANCE OR ABROAD. [1]

### DRIVING INNOVATION

### CULTIVATING YOUR TECHNICAL EXPERTISE

In your third year, you will have the opportunity to specialize in one of the 12 options offered (see "Focus on Training" brochure).

You will gain mastery in your chosen field, such as embedded systems, networks, statistical signal processing, or multimedia, image, and audio technologies, etc.

The courses are complemented by a Research Innovation Master Project (PRIM), which provides genuine training in innovation aimed at addressing the challenges faced by companies or research laboratories.

The numerous partnerships established between Télécom Paris and prestigious foreign universities provide you with the opportunity to experience international study during the second semester of your second year or in your third year.

You can obtain a Master of Science through a dual-degree program with partners in 20 countries or take part in one of our exchange programs, lasting from six months to a year, in 40 countries across Europe, Africa, the Americas, Asia, and the Middle East.

Each year, several of our students also have the chance to study at renowned American universities such as Berkeley or Columbia.

To facilitate your international mobility, you may benefit—based on eligibility— from scholarship programs managed by the International Relations Office.

1. Internships for incoming international students are conducted solely in France, except for those international students who complete the entire three-year program.
2. For international students, this option is offered only within the framework of a three-year program.

*For international students, the option is offered only within the framework of a three-year program.

# MULTIDISCIPLINARY PARTNERSHIPS
# WITH ONLY THE BEST

## > DUAL DEGREES AT PRESTIGIOUS INSTITUTIONS

A dual degree with ENSAE Paris over two years in the fields of actuarial science, data science, finance and risk management, markets, and business.

Enroll in HEC Paris to obtain both the Grande École diploma and the engineering degree from Télécom Paris. This two-year program fosters transdisciplinary profiles through the acquisition of management and business science skills, which complement your engineering education.

IFP School offers a two-year program in the field of energy that meets the needs of industry and society and is tailored to sustainable development and innovation in technical, industrial, economic, and financial disciplines.

Sciences Po and Télécom Paris offer a third-year program 'Management, Innovation, Digital' that awards a joint certificate. At the heart of the program are pedagogical innovation, experimentation, creative workshops, initiative-taking, and encouragement of entrepreneurship.

Master Project - Innovation - Design (PIC) is a degree program focused on the management of innovative projects within companies. This Master's trains experts in the implementation and management of innovation processes in enterprises.

**Master in Network Industries and Digital Economy (IREN)**

This Master's program trains students who command the operating principles of network industries and the digital economy, equipped with analytical skills and methodologies that enable them to track rapidly evolving phenomena.

**Digital Curriculum for Health**
This program with the University of Montpellier trains research and development engineers who are proficient in the new technologies used in all health professions.

The dual degree from ENS Lyon offers a two-year program geared toward research or academia.

# DUAL MASTER'S DEGREE - ENGINEERING

Additional Master's, and even PhD Track programs, are offered within the Institut Polytechnique de Paris, including eight provided by Télécom Paris

- M1-M2 Data AI Data & Artificial Intelligence
- M1-M2 IGD Interaction, Graphics & Design
- M2 ICS Integration, Circuits & Systems
- M2 IREN Network Industry and Digital Economy
- M2 MVA Mathematics, Vision, Learning
- M2 MICAS Information Processing: Machine Learning, Communication and Security
- M2 Design Research
- M2 SETI Embedded Systems and Information Processing

# STRIVE FOR EXCELLENCE WITH YOUR INNOVATIVE PROJECTS

## IGNITE YOUR ENTREPRENEURIAL POTENTIAL

## WHERE GREAT IDEAS TAKE FLIGHT

### IN 1ST YEAR

#### COLLABORATIVE TEAM PROJECT

Duration: 1 semester (half a day per week plus one intensive *boot camp* week)
Group Size: 4 to 5 students
Objective: Enhance collaborative skills with minimal supervision, tackle the complexities of a real-world problem, and explore the research areas of the school.

#### PRACTICAL APPLICATION PROJECT

Duration: 1 semester (half a day per week)
Group Size: 4 to 6 students
Objective: Immerse yourself in a multidisciplinary project that allows you to apply and deepen the technical knowledge gained in your first year. Throughout the semester, you will work collaboratively to create a tangible outcome, such as a program, prototype, or hologram.

### IN 2ND YEAR

#### DESIGN & SCIENCE PRIZE - UNIVERSITÉ PARIS-SACLAY

Group: 3 to 6 students
Objective: Collaborate on current issues to develop innovative and forward-thinking solutions. These projects are presented at the end of the year at the Palais de la Découverte to an experienced audience. The Design & Science Prize brings together students from engineering, business, and design schools around an annual theme.

### IN 3RD YEAR

#### PRIM – MASTER RESEARCH INNOVATION PROJECT

Duration: Six months
Objective: To engage students in projects addressing the core innovation challenges faced by companies and/or the school's research laboratories. Various themes may be explored, such as in the case of the ROSE project, which focuses on robotics and embedded systems.

## CREATIVE HUBS FOR INNOVATION

### A FABLAB: TRANSFORMING IDEAS INTO REALITY

The FabLab is a space designed for introducing students to modern digital fabrication methods, such as additive 3D printing and laser cutting. Equipped with cutting-edge technology (3D scanner, Arduino electronics kit, graphic stations, and a large 4K screen), the FabLab welcomes students to work on projects that require the creation of a physical object from a virtual model.

### THE E-LAB: YOUR GATEWAY TO DIGITAL CREATION

The e-Lab is an experimental space accessible to all students at the school. Here, they can apply their knowledge and create the digital objects of their choice. It serves as a co-creation hub, fostering connections among students, professors, and industry creators.

From conception to realization, students receive guidance. and support throughout the development of their projects.

### A DESIGN STUDIO: YOUR VISION'S LAUNCHPAD

This space is entirely dedicated to the development of student projects. Built as a complement to the school's FabLab, it offers a flexible area for rapid prototyping that fosters collaboration and creativity.

A designated space is available for resident members who wish to give an entrepreneurial twist to their projects.

# CREATE A START-UP: WHY NOT YOU TOO?

We support you throughout your journey to effectively balance your studies with the creation and development of your business project. The student entrepreneur status will enable you to enhance your entrepreneurial culture, connect with the business creation ecosystem, and benefit from personalized support and mentorship

**TIMOTHÉE LE QUESNE & DANIEL LOLLO**
**ENGINEERING CLASS OF 2015**
**Co-founders of Energysquare**

❝ Télécom Paris consistently facilitated and supported our entrepreneurial journey, from the first weeks of classes to leading an innovative startup, benefiting from the support and resources of the Télécom Paris Novation Center Incubator for the first 18 months.

**AXEL DE SINZOGAN & YASSINE HARGANE**
**ENGINEERING CLASS OF 2022**
**Co-founders of Eyenime**

❝ Our project, Eyenime, finalist of 'TigerLaunch,' the world's largest student entrepreneurship competition organized by Princeton University, aims to transform the experience of reading manga by offering a new immersive format. Our end-of-studies internship consists of our entrepreneurial project, allowing us to continue developing our future startup.

**JANE DOUAT**
**ENGINEERING CLASS OF 2019**
**Founder of Omena**

❝ By combining the Data Science and Innovation Strategies and Markets tracks, I gained a solid foundation of knowledge in computer science that enabled me to quickly code in JavaScript. I learned to write production code while creating Omena, a digital guide for women going through menopause. I encourage new students to undertake an applied coding internship at the end of their first year so that the experience can benefit them throughout their studies.

**PAUL FRAMBOT & JULIEN THOMAS**
**ENGINEERING CLASS OF 2022**
**Co-founders of Morpho Labs**

❝ Born from research work in Blockchain, the Morpho protocol is a suite of open-source financial services. The close relationship between teaching and research at Télécom made collaboration for cutting-edge technology possible. While we were still in our second year of engineering studies, Morpho Labs raised $1.35 million in 2021. This figure has since grown to $70 million.

## ◗ TÉLÉCOM PARIS NOVATION CENTER

The Télécom Paris Novation Center incubator has been structuring and supporting innovative digital projects in France since 1999. It is the leading French incubator for digital startups, with over **500 companies created.**

In 2022, the incubator renewed its focus by addressing new themes such as Blockchain while continuing to develop its expertise on the technological challenges of tomorrow's digital landscape.

**1250** million euros raised in funding since inception

**+500** start-ups founded

**+6000** jobs created since 1999

Five-year survival rate of **86%**

# STUDY AT A SCHOOL OF THE HIGHEST SCIENTIFIC CALIBER

**Télécom Paris: A World-Class Research Hub for Digital Sciences and Technologies**

With excellent teaching and innovative pedagogy, Télécom Paris is at the heart of a unique innovation ecosystem, built on the interaction and cross-disciplinary nature of its education, research, two business incubators, and campuses.

The school's research is conducted within two laboratories: the Interdisciplinary Institute of Innovation (i3, a joint unit of the CNRS in partnership with École Polytechnique and Mines Paris) and the Information Processing and Communications Laboratory (LTCI), both recognized for their excellence by HCERES[1] thanks to exceptional scientific output in both quality and quantity. Collaborative research at Télécom Paris is certified by Carnot Télécom & Société Numérique.

**INSTITUT CARNOT**
Télécom & Société numérique

The school mobilizes its research strengths around six strategic cross-cutting areas to address the challenges of digital transformation:

- Digital Innovation
- **Digital Trust** : Security, cybersecurity, safety, risk analysis
- **Design-Interaction-Perception** : Human-Machine Interaction, Virtualization, 3D
- **Data Science and Artificial Intelligence**: Dynamics of data and knowledge
- **Very Large Networks and Systems**: 5G, IoT, Cloud, SmartGrid, Social Networks
- **Mathematical Modeling**

1. High Council for the Evaluation of Research and Higher Education

## DISTINGUISHED RESEARCH-PROFESSORS

**Ghaya Rekaya**, Professor in the Communications & Electronics department, has been named a Senior Member of IEEE, the world's largest professional organization dedicated to technological advancements in electronics, computer science, and telecommunications.
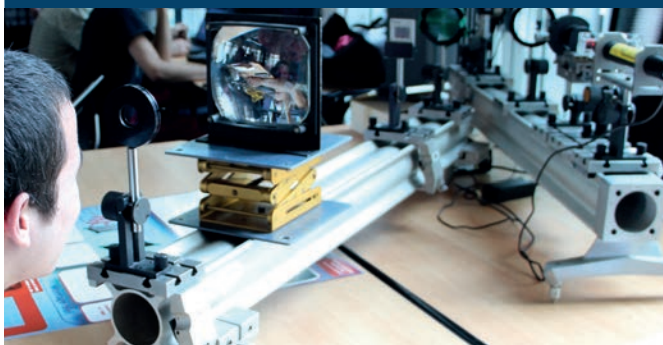
**Marceau Coupechoux**, professor in the Computer Science & Networks department, has been appointed by Arcep, the telecom regulator, to the Arcep-Ademe (Agency for Ecological Transition) expert committee on measuring the environmental impact of digital technology.
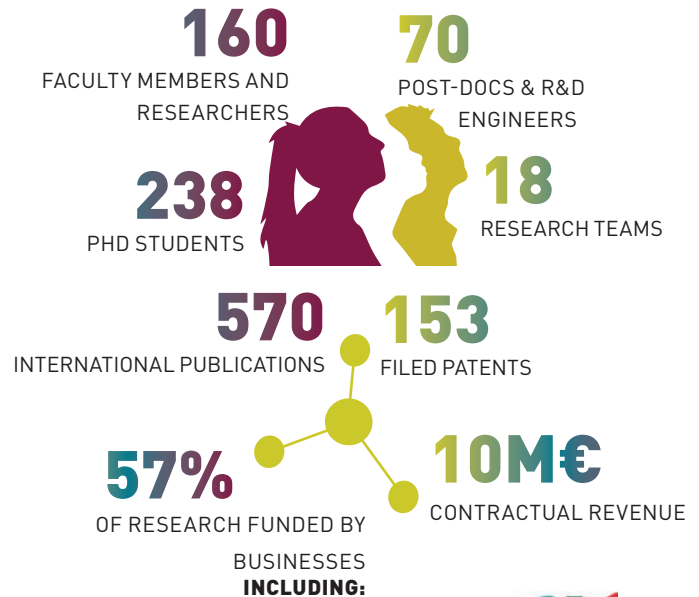
**Gaël Richard**, a professor in the Image, Data, Signal department and Executive Director of the interdisciplinary Hi! Paris center, received a European ERC grant for his project HI-Audio, focusing on automatic listening and, more specifically, on artificial intelligence for sound.

## YOUR PHD FUTURE AT INSTITUT POLYTECHNIQUE DE PARIS

The PhD is one of the significant opportunities for skill enhancement following an engineering degree. It opens the door to the research sector and serves as a career accelerator, driven by the internationalization of the socio-economic landscape and the recognition of its added value. Your thesis can be conducted in the laboratories of the school or the Institut Polytechnique de Paris, and with a potential for in-company collaboration.

## KEY RESEARCH FIGURES

**160** FACULTY MEMBERS AND RESEARCHERS

**70** POST-DOCS & R&D ENGINEERS

**238** PHD STUDENTS

**18** RESEARCH TEAMS

**570** INTERNATIONAL PUBLICATIONS

**153** FILED PATENTS

**57%** OF RESEARCH FUNDED BY BUSINESSES

**10M€** CONTRACTUAL REVENUE

**INCLUDING:**

ANFR AGENCE NATIONALE DES FRÉQUENCES · BNP PARIBAS · ENGIE · CB · CA · edf · CONVERTEO · LA BANQUE POSTALE · HUAWEI · IDEMIA · DASSAULT SYSTEMES · Renault · Qwant · exem · mazars · SAFRAN · MGV · Valeo · NOKIA · slb · Atos · WAVESTONE · pwc · orange · sopra steria · GROUPE BPCE · AIRBUS · tdf · THALES

## CHAIRS ET SHARED LABORATOIRES

Teaching and research chairs enable companies and researchers at Télécom Paris to collaborate closely in developing new approaches and solutions to significant societal challenges.

Twenty-four chairs and joint laboratories are funded on themes such as cybersecurity, natural language processing, engineering, innovation, student entrepreneurship, artificial intelligence, complex systems, future networks, the Internet of Things, etc.

# GO ABOVE AND BEYOND

**With one of the highest percentages of international students among French** *grandes écoles***, Télécom Paris offers you the opportunity to thrive in a global environment.**

Meet young people from 30 different countries, discover French culture, and take part in friendly exchange events such as the *International Village* and the *French Village*, festive evenings where each country and French region is represented by students.

## SUPPORT FOR YOUR STUDIES ABROAD

Scholarships for merit and study may be awarded to international students, including:

- French Government Scholarships: Eiffel and France Excellence Scholarships
- Scholarships from your home country or through bilateral agreements
- European Union Scholarships: Erasmus Programs
- Télécom Paris Alumni Scholarships

## EXPERIENCE INTERNATIONAL LIFE

▪▪ **Pursue a dual degree—**check the updated list of our partners on our website.

▪▪ **Experience Erasmus+ through 40 agreements across Europe.**

▪▪ **Earn a Master of Science from IP Paris** in your third year, in addition to your engineering degree.

▪▪ **Complete a paid internship** in a company or research laboratory during your third year.

## IN THEIR OWN WORDS

"

*I chose Télécom Paris for its very high ranking in computer science. I specialized in data science and image processing, with the aim of working in the field of artificial intelligence. In class, I particularly enjoyed the practical work and the projects. I've been very active in club life, which is another of Télécom Paris's strengths.* HONGCHUAN ZENG, SJTU Paris Elite Institute of Technology (SPEIT), China

*At Télécom Paris, you develop a deep understanding of economical and ethical stakes, which are foremost to have an impact as engineers. And of course, living in Paris and studying on the IP Paris campus is a great experience.* PHILIPP SCHLIEKER, Technical University of Munich

*Télécom is the first engineering school for digital technologies in France. We had courses of an excellent level. The combination of theory and practice makes it easy to understand Data Science. Graduating from Télécom Paris gave me the skills I was looking for. I now work as a data scientist for the French bank BNP Paribas. Don't miss the chance to join Telecom Paris!* ASMA ZINEDDINE, Sup'Com, Tunisia - Eiffel scholarship

*Telecom Paris was the best choice for me, as it offers a specialization in Data Science and Big Digital Infrastructures. The major assets of Télécom Paris are its proximity to companies and the social and cultural activities organized by the many student associations.* ROSARIO SZUPLAT, University of Buenos Aires, Argentina.

**KEY FIGURES**

**+100** partnerships

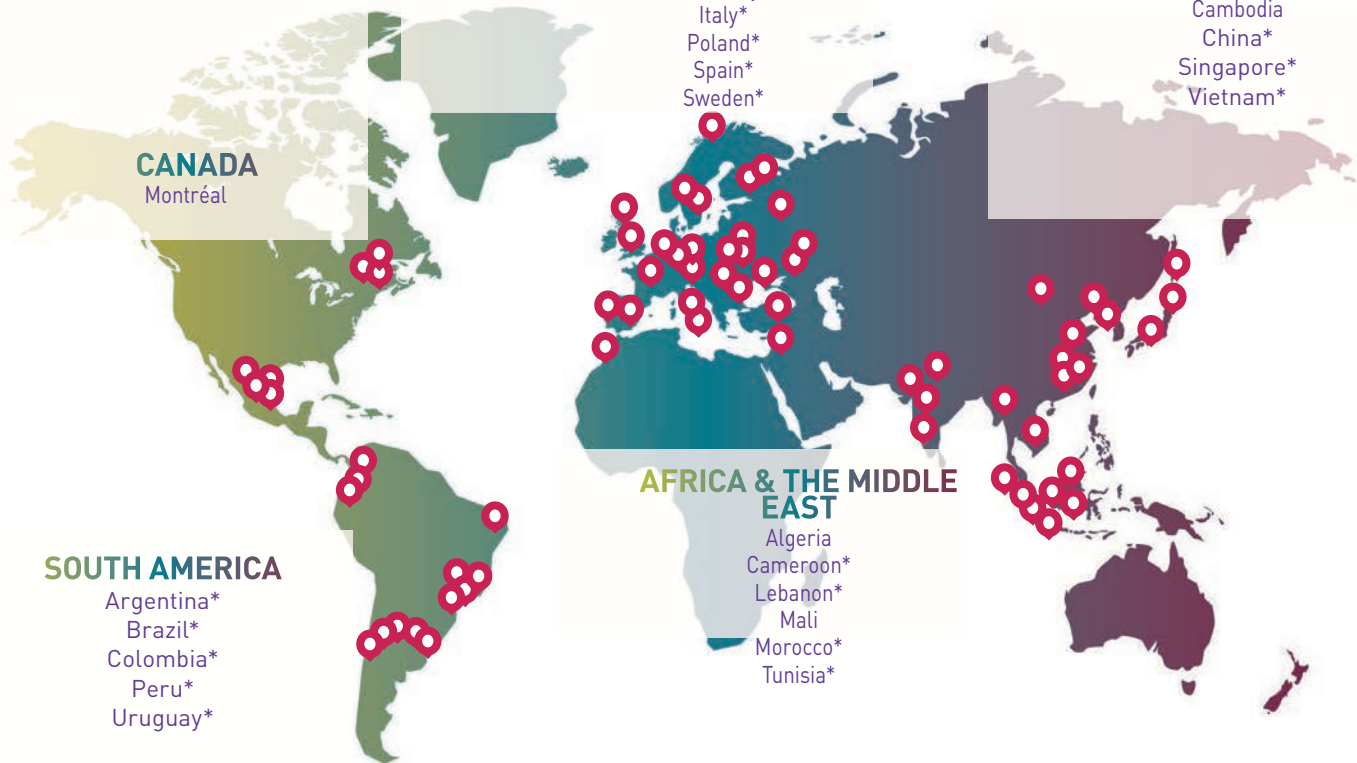**20%** of graduates secure their first job abroad

Partnerships in **40** countries on 4 continents

**45%** international students (across all programs)

**Ranked 12th** in the world
#1 in Europe for universities in the QS Graduate Employability Rankings 2024, Institut Polytechnique de Paris, of which Télécom Paris is a founding member.

## COUNTRY OF ORIGIN



**EUROPE**
Austria*
Belgium*
Germany*
Italy*
Poland*
Spain*
Sweden*

**ASIA**
Cambodia
China*
Singapore*
Vietnam*

**CANADA**
Montréal

**AFRICA & THE MIDDLE EAST**
Algeria
Cameroon*
Lebanon*
Mali
Morocco*
Tunisia*

**SOUTH AMERICA**
Argentina*
Brazil*
Colombia*
Peru*
Uruguay*

*Partnerships

**INSTITUT POLYTECHNIQUE DE PARIS: AN INTERNATIONALLY RECOGNIZED INSTITUTION!**

**34th** Global Ranking of the Most International Universities in the THE 2023 Rankings

# CORPORATE CONNECTIONS

**PERSONAL DEVELOPMENT INTERNSHIP** (1 - 2 MONTHS)

From the first year, you complete a minimum four-week internship in France or abroad. You can choose between a corporate internship or a humanitarian internship with an organization. The goal is to integrate into an organization and observe its operations.

**#1** *for our close ties with industry*

*2023 ranking*
**l'Etudiant**

## NETWORK WITH INDUSTRY LEADERS AND INNOVATORS

At Télécom Paris, the world of business is a constant reference in our teachings and pedagogy. The school offers around fifty events each year that connect you with professionals from various sectors, including major corporations, SMEs, and startups.

- Case Studies
- Seminars
- Themed Roundtables on Career Development
- Company Presentations
- Career Forums
- Recruitment Preparation
- Interview Coaching
- Company Tours
- Networking Events
- Challenges and Activities
- Quick Connect Interviewing

Emmanuel Macron speaking at Télécom Paris
April 13, 2016

**Seminars with prominent figures:**
**Gilles Babinet**, Digital champion at the European Commission
**John Chambers**, Executive Chairman of Cisco
**Nicolas Demassieux**, Senior VP at Orange Labs
**Jack Dorsey,** Founder of Twitter
**Vincent Dureau**, Senior Technical Director at Google
**Jean-François Julliard**, General Director of Greenpeace France
**Emmanuel Macron**, as Minister of Economy and Finance

## ENGINEERING INTERNSHIP (6 MONTHS)

In the third year, a full semester is dedicated to the engineering internship, which takes place in France or abroad. The objective is to gain experience in a corporate setting as an engineer within a team.

## CORPORATE MENTORS

**Each year, two companies sponsor a cohort and support its projects: Naval Group and onepoint (2023), Bouygues Telecom and Tiime (2024), Veolia and Exotec (2025).**

**M. Mixime Digue**

Co-founder of Tiime

**M. Jean-Paul Arzel**

Chief Technical Officer
Bouygues Telecom

"

Digital technology is everywhere in our lives. The reality is that there is an engineer behind the daily experiences of everyone. This is a simple yet powerful revelation of the incredible impact that the engineers of tomorrow hold in their hands.

While they are undeniably scientists, my mission as a mentor is to broaden their perspective and share what is most fundamental: our values. Independence, simplicity, openness, and freedom are the greatest gifts we have to offer at Tiime. As the pillars of our own development, they are the guarantees of our mission: to simplify the daily lives of a million entrepreneurs.

We have a lot in common, which is why I chose to sponsor the Class of 2024. Bouygues Telecom puts technology at the service of human relationships. We play a key role in society, both in the daily lives of citizens and in the needs of businesses, which are enormous and continually increasing. To support these uses, we need new talents, their fresh perspectives, and their creativity. And you, students of Télécom Paris, can bring us just that.

Bouygues Telecom is fully open to you—don't hesitate to share your wishes and ideas with us so that our collaboration can be as rich and concrete as possible.

"

## KIND SUPPORT FROM THE MINES-TÉLÉCOM FOUNDATION

Thanks to donations from businesses and individuals, the Mines-Télécom Foundation funds programs in training, research, innovation, and foresight at Télécom Paris. It also provides scholarships, supports teaching and research chairs, and contributes to the school's development of MOOCs.

## CORPORATE MENTORS

# CAMPUS LIFE IN PALAISEAU

## A MODERN CAMPUS

**In Palaiseau, our students have access to:**

- State-of-the-art research equipment
- New facilities and housing services
- Libraries open 24 hours a day, 7 days a week
- A Learning Center and a Shared Teaching Facility

## WELCOME HOME

AT THE OF HEART OF THE **INSTITUT POLYTECHNIQUE DE PARIS** CAMPUS

A **CENTER FOR DOCUMENTARY AND DIGITAL RESOURCES** LIBRARY

A **DINING HALL** AND **2 CAFÉS AT THE SCHOOL**

"

By choosing Télécom Paris, you will discover the academic excellence of a prestigious general engineering school focused on digital technologies. Supported by dedicated faculty members, you will follow a rich and diverse curriculum that will ultimately offer you a promising future full of opportunities.

On the other hand, entering the school also marks the beginning of your student experience. On our new campus, you will find a vibrant and varied student life, accompanied by a warm and close-knit cohort. Whether you're a fan of sailing, wine, theater, a cheese lover, a video editing enthusiast, a music aficionado (from jazz to techno), or eager to learn how to set the vibe behind the turntables, discover new board games, or become a master kebab maker, Télécom and its associations are here

to satisfy all your desires!

Finally, campus life is particularly animated by the Student Union (BDE): between promotional weekends, events, case studies, and networking with companies, the BDE strives to meet everyone's needs and desires. As you can see, at Télécom Paris, you can look forward to experiences, connections, and discoveries, all within a well-established spirit of kindness and good humor.

Jules Michaud (promo 2024)
Président du BDE

"

# STUDENT LIFE IN THE DIGITAL AGE

Our school offers you a wealth of administrative and pedagogical resources including:

- **E-Campus:** a collaborative Moodle for teachers and students
- **SynpaseS:** Access the entire course catalogue, academic tracks, news and information, schedule, grades, etc.

# COOPERATIVE INITIATIVES

Take advantage of activities from various schools and universities in the area:

- Sciences and Literature Competition at ENSTA Paris
- Comète Film Festival at Télécom Paris,
- ENS Paris-Saclay theater
- Inter-school sports teams on the Saclay plateau

Unlock endless possibilities on our open campus!

# TÉLÉCOM PARIS CELEBRATES DIVERSITY

A genuine strategy has been implemented and developed within the school to ensure that everyone feels welcomed and included, regardless of their social background, gender, disability, or specific characteristics.

### INCLUSION

A support center to combat gender-based and sexual violence, as well as other forms of discrimination, was established in early 2020, and gender equality and discrimination officers were appointed. There is also a dedicated disability officer for students. The administration takes into account the specific cases and needs of every individual.

### AWARENESS

Our school offers several awareness-raising events in partnership with specialized associations on all topics related to diversity aimed at both students and staff. Examples include forum theater, webinars, roundtable discussions, communication campaigns, workshops, training programs, and more.

Student engagement is encouraged and valued. Concepts of ethics and social transition are integrated into the curriculum through specific modules.
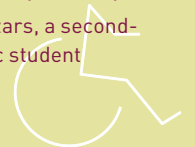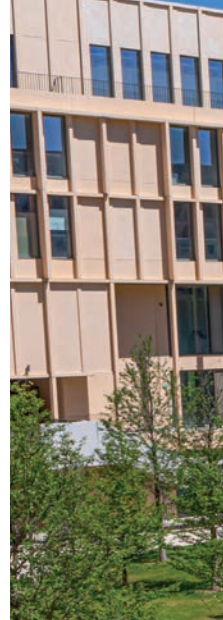
## GENDER EQUALITY

## EQUAL OPPORTUNITY
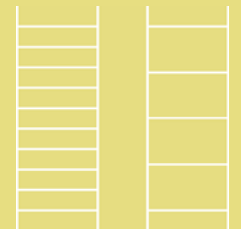
## DISABILITIES

*The administration of Télécom Paris has been responsive and has adapted certain exams to accommodate my disability.*

- Mikaël Mazars, a second-year dyslexic student

# AT THE HEART OF INSTITUT POLYTECHNIQUE DE PARIS



Since 2019, Télécom Paris has been located in Palaiseau and has joined the schools of the Institut Polytechnique de Paris. Here, the school strengthens its close ties with the prestigious engineering schools, universities, companies, and research institutes present on campus.

## UN CAMPUS IN ECOLOGICAL TRANSITION

## AIMING FOR CARBON NEUTRALITY

Télécom Paris has embarked on its ecological and energy transition across all its activities.

Its carbon footprint was assessed as relatively good in 2020, thanks to its new High Environmental Quality building and targeted measures (recycling, digital work environment, sustainable transport, training, partnerships). The school aims to make the campus exemplary and further reduce its impact with a holistic approach that includes food, digital sobriety, low-impact commuting, and research in responsible and useful digital technologies to protect the environment and biodiversity.

Dedicated courses, workshops, debates, and the integration of these environmental issues into projects and disciplines train everyone to understand and innovate in response. Additionally, the student association MaD allows for hands-on experimentation through challenges, eco-races, anti-waste collections (for meals, clothing, furniture), composting, and more.

## A PART OF THE ÉCOLE POLYTECHNIQUE COMMUNITY
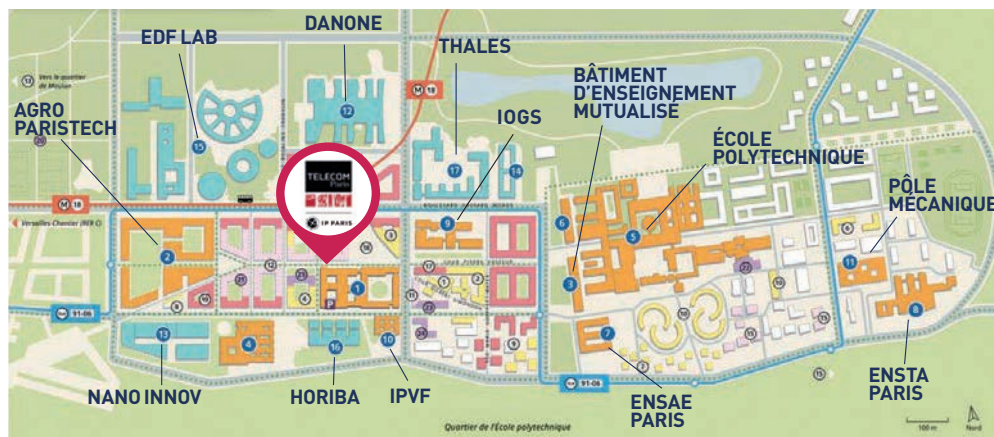


**870,000 M² INCLUDING:**

> 196,000 m²  dedicated to higher education and research
> 360,000 m² for economic development
> 200,000 m² for family housing
> 78,000 m² for student housing
> 36,000 m² for shops, services, and public facilities

# LIVING ON THE PALAISEAU CAMPUS

Télécom Paris is committed to facilitating the arrival of its students. To ensure that as many students as possible can live on-site, agreements have been established with numerous student residences located near the school, as well as in Gif-sur-Yvette, Massy, Palaiseau, and Paris (Cité Internationale Universitaire).

**For more information:**
**www.telecom-paris.fr/logement**

# SPORTS: STAY ACTIVE – STAY HEALTHY

We take our students' physical and mental health seriously. The range of available sports is thriving. In collaboration with other Plateau Saclay schools, particularly IP Paris, over fifteen sports are offered to students, from football to rowing, and from boxing to climbing.

With both indoor and outdoor facilities, the Multisport Hall and the sports fields at École Polytechnique, along with numerous stadiums and gyms on campus, provide everyone with the opportunity to engage in a diverse range of sports activities.

# THE PLATEAU OF PARIS–SACLAY: A GLOBAL INNOVATION HUB

**Aerospace, Defense, Security**
30,000 jobs – 60 establishments

**Information and Communication Technologies**
37,000 jobs – 400 establishments

**Energy – Climate**
17,000 jobs – 31 establishments

**Health**
15,000 jobs – 100 establishments

**Mobility - Transportation**
27,000 jobs – 120 establishments

**Higher Education and Research**
9 highly-ranked engineering schools and 2 universities, 7 research organizations, and numerous companies, 65,000 students, 10,000 faculty and researchers

# AN EXCEPTIONAL ALUMNI NETWORK

## JOIN THE TÉLÉCOM PARIS
## ALUMNI COMMUNITY!

This strong network of over 20,000 worldwide is an essential link between the school, its students – that is, you – the alumni, and the professional world.

For over 70 years, the alumni association has been bringing together students and graduates, offering them a wide range of services and tools, and fostering the network through events, conferences, and themed discussion groups throughout the year. It supports its members throughout their professional and personal lives and facilitates the valuable sharing of experiences across generations.

Join us as soon as you arrive at the school!

Find information about Télécom Paris alumni at:
www.telecom-paris-alumni.fr

**MAXIME AYMONOD**
ENGINEERING CLASS OF 2015
STANFORD UNIVERSITY
(MASTER OF SCIENCE 2014-2015)
MBA HARVARD 2020

" I am involved with the alumni association of Télécom Paris to give back and ensure that students can benefit from the same opportunities I had. It's also a great way to connect with other alumni and share fond memories. "

*A POWERFUL PROFESSIONAL NETWORK OF +20,000 ACTIVE GRADUATES IN ALL SECTORS*

# THEY ARE TÉLÉCOM PARIS ENGINEERS

## A LOOK BACK AT THEIR JOURNEYS

### VINCENT BENVENUTO
CLASS OF 2020
TRADER FOR SOCIÉTÉ GÉNÉRALE
IN NEW YORK, USA

**BEFORE TÉLÉCOM PARIS**: Intensive preparatory classes and admission via competitive exams.
**PROFESSIONAL DEVELOPMENT INTERNSHIP**: A two-month placement at a Parisian investment fund with asset managers.
**2ND-YEAR SPECIALIZATIONS**: Strategy, Innovation, Markets, and Stochastic Modeling and Scientific Computing, along with a mini-specialization in Machine Learning.
**3RD-YEAR OPTION**: A Master of Financial Engineering at the University of California, Berkeley.
**6-MONTH ENGINEERING INTERNSHIP**: Oddo BHF, a Parisian broker, in a bond trading desk, conducted between his 2nd year and his Master's program.
**POST-GRADUATION:** Hired as a Derivatives Trader on an indexing desk at Société Générale in New York followed by a Delta One Index Trader

### MÉLISSA ROSSI
CLASS OF 2016
CRYPTOGRAPHER FOR THE FRENCH CYBERSECURITY AGENCY

**BEFORE TÉLÉCOM PARIS**: Intensive preparatory classes.
**PROFESSIONAL DEVELOPMENT INTERNSHIP**: One-month mission with the OLPC France association to teach logic and manage the IT system of a school in northern Madagascar.
**2ND-YEAR SPECIALIZATIONS**: theoretical foundations (algorithmics, quantum computing, cryptography) complemented by an entrepreneurial project.
**3RD-YEAR OPTION**: Parisian Master of Research in Computer Science in partnership with Université Paris-Saclay, Université Paris-Diderot, and ENS Ulm.
**6-MONTH ENGINEERING INTERNSHIP**: A six-month research internship in cryptography at Thales (1st prize for best internship awarded by the Mines-Télécom Foundation), followed by an additional cryptography internship in San Francisco for Rambus Cryptography Research.
**POST-GRADUATION:** Following her internship at Thales, she secured a PhD contract at ENS Paris-Saclay, funded by Thales, focusing on post-quantum cryptography. In October 2019, she joined ANSSI (the National Cybersecurity Agency of France) as a cryptologist.

### LOUIS ESCUDERO
CLASS OF 2016
BUSINESS DEVELOPMENT MANAGER
ROCKWOOL GROUP, COPENHAGEN

**BEFORE TÉLÉCOM PARIS**: Intensive preparatory classes.
**PROFESSIONAL DEVELOPMENT INTERNSHIP**: Agricultural placement in Dorset, United Kingdom.
**2ND-YEAR SPECIALIZATIONS**: Strategy, Innovation, Markets + Financial Mathematics courses.
**3RD-YEAR OPTION**: Master of Science Management & Strategy, London School of Economics (LSE).
**6-MONTH ENGINEERING INTERNSHIP**: Master Thesis completed during his Master of Science
**POST-GRADUATION:** He was directly recruited by the Somfy group for a Strategic Manager position for three years before taking on operational responsibilities. In August 2021, became the Regional Product Manager at VELUX after which he was recruited as a Business Development Manager at Rockwool Group.

### MARGAUX LEDIEU
CLASS OF 2018 CURSUS SOPHIA
SENIOR DATA SCIENCE MANAGER
MICROSOFT

**BEFORE TÉLÉCOM PARIS**: Intensive preparatory classes and admission via competitive exams.
**PROFESSIONAL DEVELOPMENT INTERNSHIP**: Waitress at an ice cream shop in Aix-en-Provence.
**2ND-YEAR SPECIALIZATIONS**: The Big Data program at Eurecom.
**3RD-YEAR OPTION**: dual degree program in Machine Learning at the Royal Institute of Technology (KTH) in Stockholm.
**POST-GRADUATION:** Three years in a Graduate Program at Equinor. Since June 2021, a Senior Data Scientist at Microsoft in Norway.

### REDA BENCHEKROUN
CLASS OF 2017
SENIOR DATA SCIENTIST
PERNOD RICARD

**BEFORE TÉLÉCOM PARIS**: Intensive preparatory classes and admission via competitive exams.
**PROFESSIONAL DEVELOPMENT INTERNSHIP**: A mission with an association that assists the elderly in Kenitra, Morocco.
**2ND-YEAR SPECIALIZATIONS**: Random Modeling and Scientific Computing, and Strategy, Innovation, Markets.
**3RD-YEAR OPTION**: Master PIC (Project Innovation Conception) with l'École polytechnique.
**INTERNSHIPS**: Six months at Ubisoft in IT Project Management and a Master's program on a work-study basis at Kyriba in Business Intelligence.
**POST-GRADUATION:** joined Proximity then Pernod Ricard as a Senior Data Scientist.

## CONTACTS

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Institut Mines-Télécom