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

ENSTA
ENSAE
TELECOM Paris
TELECOM SudParis
INSTITUT POLYTECHNIQUE DE PARIS

INSTITUT POLYTECHNIQUE DE PARIS

Double-degree programs of the Institut Polytechnique de Paris

ENSTA Paris
Telecom Paris
Telecom SudParis

International admissions

RÉPUBLIQUE FRANÇAISE

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 3rd most important language for business in the world after English and Mandarin Chinese

•France is the 7th Economic Power in the World

•The country combines arts, history and quality of life with science, high technology & innovation

•6th destination in the world for international students

•9 out of 10 international students recommend France as first study destination

WHY CHOOSE PARIS?

- 8th Named World's Best Student City (QS 2023)
- 6th 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
- 1st Region in Europe for R&D

https://www.topuniversities.com/university-rankings-articles/qs-best-student-cities/paris
https://www.topuniversities.com/city-rankings/2023

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 38 universities (QS, CWUR)
QS ranking by Subjects :
Maths 14th, Engineering & Tech 21st, Natural Science 26th,
Statistics & Operational research 23d, Computer Science 31st,
Physics 38th, Electrical & Electronic Eng. 45th, Mechanical Eng. 45th

- **95% Employability** rate 4 months after graduation
- **QS Graduate employability ranking** :
  N°12 World, N°1 France

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

30%
international faculty members

INSTITUT POLYTECHNIQUE DE PARIS

EXCELLENCE IN RESEARCH AND INNOVATION

Cross-disciplinary research

Leader in **world-class research activities**

Close collaboration with **companies**

Top 10 innovation clusters in the world

High level of **entrepreneurship**

INSTITUT POLYTECHNIQUE DE PARIS

THE DIPLÔME D'INGÉNIEUR

Bachelor

Cycle ingénieur

Master / MSc&T

PhD / PhD Track

Executive Master

Mastères spécialisés

Executive Education

3Y

3Y

2Y

2Y + 3Y

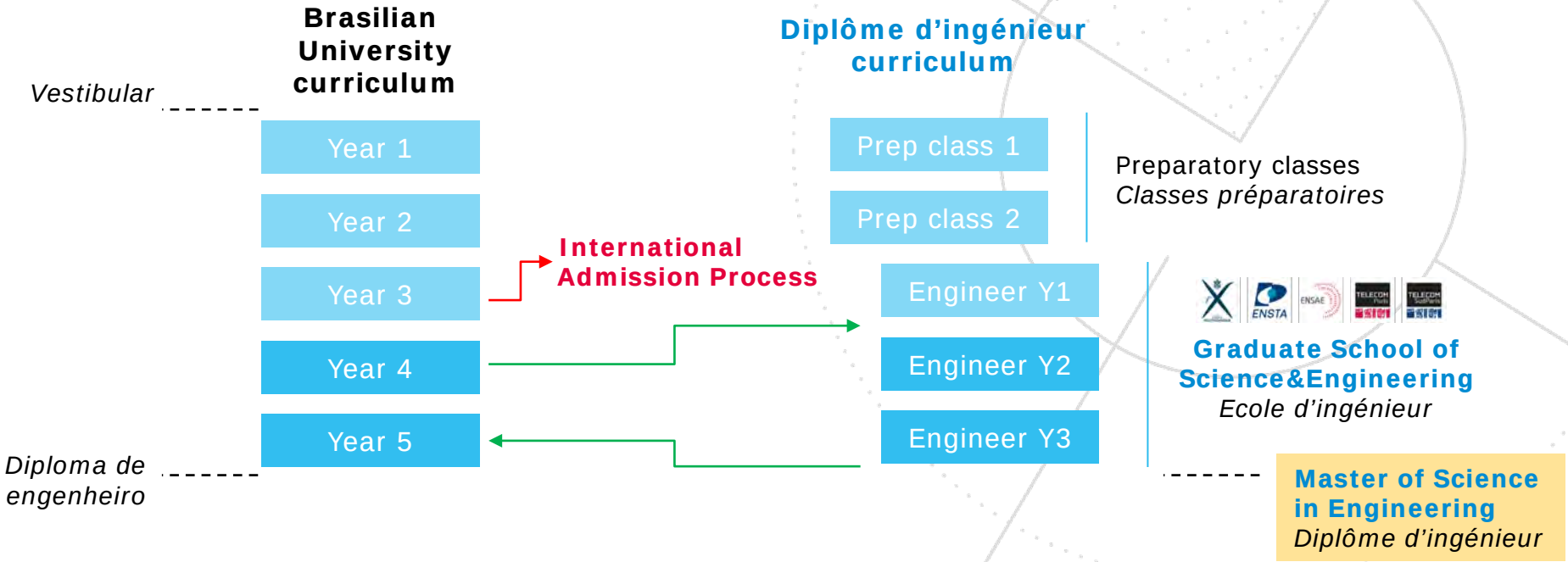
14 M

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:

ENSTA · ENSAE · TELECOM Paris · TELECOM SudParis · INSTITUT POLYTECHNIQUE DE PARIS

- ✓ 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 : May to September 29

    https://admission.ip-paris.fr/
  - Notification of eligibility: October 7
  - Interviews for pre-selected candidates: October 11 to October 31
  - Selection of school preferences: November 1 to November 6
  - Final acceptance from one school: November 15
  - Reception of acceptance letters: December 2024 to March 2025
  - Term starts: September 2025

Tuition fees, cost of living and scholarships

Tuition fees per year	ENSTA	TELECOM Paris	TELECOM SudParis
Non-EU students	4 650 €	4 850 €	4 850 €
EU students	2 650 €	3 200 €	3 200 €
Dual Degree students	Y1: 1395 € Y2: 1395 €	Y1: 0 Y2: 3 200 €	Y1: 0 Y2: 3 200 €

Estimated cost of living:
900 € / 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

	INSTITUT POLYTECHNIQUE DE PARIS	ENSTA	TELECOM Paris	TELECOM SudParis
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, Sustainable development

ENSTA PARIS: ENGINEERING & SCIENCE FOR CHANGE!

A GRADUATE SCHOOL OF SCIENCE & ENGINEERING

+ **1200** STUDENTS
+850 IN ENGINEERING
+230 IN MASTER'S PROGRAMS
+140 PHD

FOUNDED IN 1741

27 % OF WOMEN

28 % INTERNATIONAL STUDENTS

#2 FRENCH NATIONAL RANKING « L'ETUDIANT » 2024

#6 RANKING « FIGARO ETUDIANT » 2024

A RICH ECOSYSTEM

72 INTERNATIONAL AGREEMENTS (32 FOR DOUBLE DEGREE)

2 OFFSHORE CAMPUSES

110 PARTNER COMPANIES IN RESEARCH AND EDUCATION

MORE THAN **10 000** ALUMINI

CUTTING-EDGE RESEARCH

TRANSPORT & MOBILITY

ENERGY

DEFENSE & SÉCURITY

HEALTH

EDUCATION

- Transportation (smart & sustainable Mobility)
- Energy (renewable, nuclear)
- AI & Data, Robotics, Cybersecurity
- Mathematical Engineering (Modeling, finance, optimization, data)

ENSTA
IP PARIS

AN ACTIVE STUDENT LIFE

Ig : BR.ENSTA

More than **60 student associations and clubs**

Sport facilities: a new gymnasium (2012) and access to the facilities of the Ecole polytechnique: tennis courts, rugby courts, swimming pool, equestrian center...

On-Campus accommodation: **430 studios**

All international students get an accommodation

BIENVENUE EN FRANCE

ENSTA
IP PARIS

ENSTA Paris: YOUR CURRICULUM

- *Students need to reach **B1 level** in French by the end of June*
- *Students arrive in France mid-July for a 4-week intensive **French language internship** (paid by ENSTA Paris, both course and accomodation)*
- *Students arrive on the Campus (accomodation on-site) mid-August*
- *2-week scientific revisions*
- *Early September: start of the Academic year*

Thematic specialisation

Y2

One Major (and one *Minor*)

- **Applied Mathematics**

Mathematical engineering
Mechanical & physical models

- **Computer Science Eng.**

Artificial intelligence & cyberphysics
Software & cyber security

- **Mechanical Engineering**

Sustainable energy
Mechanical modelling
Smart systems

- **Research Internship (10-14 weeks)**

Professional specialisation

Y3

One Specialisation + 1 *Profile*

Optimization and data sciences
Modelling & simulation
Quantitative finance
Maths for Health & Environment

Robotics & smart autonomous systems
Artificial intelligence & Data
Cybersecurity

Smart, sustainable mobility and vehicle eng.
Offshore transport and energy structures
Sustainable energy: production and optimization
Nuclear power eng.

- **Engineer internship (22-26 weeks)**

Research & Innovation
Project engineer
Entrepreneurship

50% TAUGHT BY EXPERTS FROM COMPANIES

Culture - Communication - Languages - Applied Economics
Sports - Preparation for professional integration

ENSTA
IP PARIS

Telecom Paris

154 professors
1700 students
including 44% international students
18 300 alumni

600 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

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 500 start-ups created, 86% in activity, over €1,100M funding raised, over 5,500 jobs created)

Close links with industry

More than 300 partner companies
15 teaching and research chairs
8 joint laboratories
500 guest speakers from the business world
100+ activities with companies for students

Grafton Architects, Pritzker Prize 2020

programs taught in English

Diplôme ingénieur
Post-master

An internationalized graduate school

100+ partners in 39 countries
42 dual degree agreements in 18 countries
34% of international professors
27% of 1st jobs abroad
1 international shared campus in Shanghai: SPEIT

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

French rankings in 2023

2d in general ranking of engineering graduate schools
1st for: links with companies and industrials, international connections, salaries of first job after school…

www.telecom-paris.fr

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

- 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
- Embedded Systems
- Distributed Software Systems
- 3D & Interactive 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

TELECOM SUDPARIS

+125 partnership Agreements in more than 40 countries

39 international dual degree agreements

ERASMUS MUNDUS agreement

65 different nationalities on campus

11 Foreign languages taught*

* English, German, Spanish, Portuguese, Russian, Italian, Japanese, Arabic, Chinese, Korean, French (as a foreign language)

SUPPORT TO INTERNATIONAL STUDENTS

- Orientation Day
- French language classes (2-week intensive + weekly classes)
- Guidance for administrative procedures
- Accommodation guaranteed
- An association for international students "Welcom!"

2 campuses

~1000 students

100+ researchers

100+ PhD students

23% female students

900 accommodations

29% scholarship holders

430 K€ social assistance granted by the school to its students

9% work-study students

87,5% Graduates hired before graduation (French average: 66%)

0€ Total exemption from tuition fees for scholarship holders

INTERNATIONAL STUDENT ADMISSIONS

Languages of instruction: FR (B2) /EN (B2)

French language instruction is provided during all years.

START-UP INCUBATOR

IMT Starter**: 3rd business incubator in France - Providing coaching, seed funds, international collaboration, entrepreneurship and training.**

GRADUATE PROGRAMS

- **Computer Science and Information Systems**
- **Networks, Services and Protocols**
- **Mathematics and Statistical Modeling**
- **Image Processing and Multimedia**
- **Embedded Systems, Mobility and Communicating Objects**
- **Managing Digital Transformation**

OPEN TECHNOLOGY PLATFORMS

- **Health and Dependency Living Lab**
- **Cloud and Networks**
- **Cyber-security for connected infrastructures**
- **Medical and Biological Imaging**
- **Ultra-High-Speed Networks**
- **Cloud for multimedia processing**
- **Middleware for the Internet of Things**
- **High-Resolution and Wide-Field Microscopic Imaging Services for Big Data**

CAMPUSES

Two rapidly developing and modern campuses located in one of Europe's leading innovation clusters.
900 accommodations provided in Evry (2nd Year)

THE TELECOM SUDPARIS *INGÉNIEUR* PROGRAM

2ND YEAR / TWO SEMESTERS

1st phase

A time of discovery to better choose your path

At the start of 2nd year, students choose three fields of specialization.

MATHEMATICS (3 ECTS)
Scientific computing (30h)

IMAGES (3 ECTS)
Multimedia acquisition and representation (30h)

PHYSICS (3 ECTS)
Physics of telecommunications (30h)

NETWORKS, SERVICES AND PROTOCOLS (3 ECTS)
Networks: the reality today and challenges of tomorrow (30h)

COMPUTER SCIENCE AND INFORMATION SYSTEMS (3 ECTS)
Web architectures and applications (30h)

SIGNALS (3 ECTS)
Secure communications (30h)

CROSS-DISCIPLINARY MODULE (3 ECTS)
Digital technology and energy consumption (30h)

2nd phase

First steps towards expertise

1. CHOICE OF ONE OF THE FOLLOWING THREE FIELDS:

COMPUTER SCIENCE AND INFORMATION SYSTEMS
Introduction to object-oriented software engineering for applications (30h - 3 ECTS)
System programming (30h - 3 ECTS)
Information systems and digital transformation (30h - 3 ECTS)

SIGNALS AND COMMUNICATIONS
Compression, coding and modulation for advanced communication systems (30h - 3 ECTS)

PHYSICS
Optical devices and microwave systems (30h - 3 ECTS)
Electronic systems and functions II (30h - 3 ECTS)

LANGUAGES AND HUMANITIES (14 ECTS/YEAR)
English (80h)
LV2 (40h)
Humanities (40h) Examples of courses:
- Sociology of hypermodernity
- Global justice and the new international order
- Diversity management

2. CHOICE OF ONE OF THE FOLLOWING THREE FIELDS

1. NETWORKS, SERVICES AND PROTOCOLS
System programming (30h - 3 ECTS)
Complex networks and validation (30h - 3 ECTS)
Wireless internet: concepts, technologies and architectures (30h - 3 ECTS)

2. MATHEMATICS
Learning, automatic classification, data mining (30h - 3 ECTS)
Applied statistics (30h - 3 ECTS)

3. IMAGES, MULTIMEDIA AND APPLICATIONS
Image analysis (30h - 3 ECTS)
Computer vision (30h - 3 ECTS)

PROJECTS (6 ECTS)
Industrial, research and development project: Cassiopée

DEDICATED WEEKS
Challenge Projets d'Entreprendre® (2 ECTS)
IMaGIn' week (2 ECTS)

https://www.telecom-sudparis.eu/

THE TELECOM SUDPARIS *INGÉNIEUR* PROGRAM

3RD YEAR / TWO SEMESTERS INCLUDING A 6-MONTHS INTERNSHIP

3rd phase
Deepening knowledge

Specializations

During semester 1 of the 3rd year, students can specialize in an area of interest by choosing one of the following specialization tracks (VAP).

4 specializations

NETWORKS, SERVICES AND PROTOCOLS
- Systems and Network Security (SSR)*
- Architecture and intelligence for networks (AIR)
- Data science and network intelligence (DANI)
- Computer science for networks (CSN)

2 specializations

IMAGES, MULTIMEDIA AND APPLICATIONS
- High-tech imaging (HTI)
- Media[1]

3 specializations

PHYSICS
- Embedded systems, mobility and communicating objects (SEM)
- Electrical and optical engineering (EOE)
- Data analysis and patterns Classification (Datapac)

2 specializations

MATHEMATICS
- Statistical modeling and applications (MSA)
- Artificial Intelligence (AI)[1]

2 specializations

MANAGEMENT, ECONOMICS AND HUMANITIES
- International business engineering (IAE)[1]
- Innovation, design and engaged entrepreneurship[2] (IDEE)

3 specializations

COMPUTER SCIENCE AND INFORMATION SYSTEMS
- Video games / Digital interactions and collaboration (JIN)[2]
- Distributed computing services architect (ASR)*
- Information system integration and deployment (DSI)

LANGUAGES AND HUMANITIES
- English (30h - 2ECTS)
- Introduction to CSR (30h - 2 ECTS)
  - Life cycle analysis
  - Carbon footprint
  - Application to a case study

DEDICATED WEEK
PROCO (Communications and behavior finalities) week (2 ECTS)

INTERNSHIP (30 ECTS)

The engineering internship is carried out during the 3rd year in a company or research laboratory for a minimum duration of 24 weeks. It allows students to apply the knowledge and skills acquired during their training and perform early-career engineering tasks.

LES PARRAINS

sopra steria, Allianz, setec, Deloitte., orange

LES ACCÈS CAMPUS

accenture, BearingPoint., AIRBUS, CGI, BNP PARIBAS, I-TRACING, onepoint., Capgemini, TF1, LA POSTE, SIAPARTNERS, tcs, Atos, UBISOFT, devoteam, Magellan M, ippon, MEDIA, Talan, Setics, Artik, OUTSCALE, ASOBO, CYNESS, WAVESTONE, mc2i

LES PARTENAIRES FONDATION

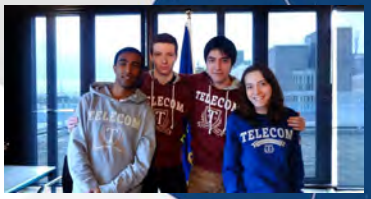
BNP PARIBAS, DASSAULT SYSTEMES, bouygues, Talan

LES PARTENAIRES CHAIRES

cns, MICHELIN, dgac, sopra steria, SNCF, NOKIA, SPIE, Log

LES PARTENAIRES PARCOURS SANTÉ

FOCH, AFMTELETHON, MERCK, accenture





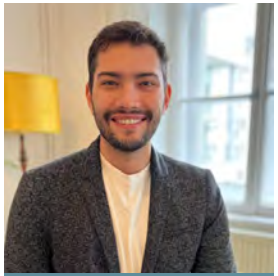


• A global Alumni Network : ENSTA Paris Alumni

A Wide Variety of Career Paths

Rogério Salloum (2009)

Co-Founder & CEO at PiezoRobotics, Singapore



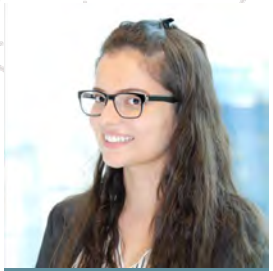
Luis Benetti Ramos (2017)

Sales manager, Wind Energy at Nordex, Paris

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

Pedro Ziebell Ramos (2019)

Software engineer, AlphaSights, Porto Alegre



Isabelle Elisie da Silva Santos (2020)

Senior Business Analyst at Kearney, Sao Paulo

A global Alumni Network : Telecom Paris Alumni

A Wide Variety of Career Paths

Vitor Garcia Bacetti (2010)

Group Product Manager
Google Play
New York
USA

Ermínio da Cas Neto (2012)

Manager
Deloitte
Rio de Janeiro

Isabela Merath Gomide (2013)

Product Owner
MODEC, Inc.
Rio de Janeiro

Renata Porciuncula Baptista (2019)

R&D Engineer
Wavelight GmbH
Berlin
Germany

https://www.telecom-paris.fr/en/international/international-students

A global Alumni Network : Telecom SudParis Alumni

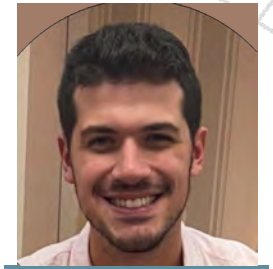
A Wide Variety of Career Paths

João Rodrigues de Oliveira (2011)

Embedded System Engineer at Mobit Brasil Ltda,
Fortaleza

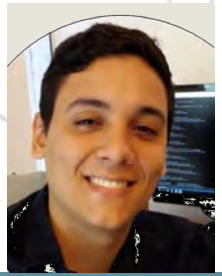
Lucas Barcelos Mendes (2017)

Asset Management Advisor at EP2C Energy,
Atsinanana, Madagascar



Renan Sampaio (2019)

Business Analyst at IDT Corporation,
Fortaleza



Pedro Borges (2019)

Senior Software Developer at Synchro
Natal

Questions and answers

www.ip-paris.fr
https://admission.ip-paris.fr/

dd-admission@ip-paris.fr

Institut Polytechnique de Paris

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