Becoming A DIGITAL *Engineer*

EURECOM
AN INTERNATIONAL GRADUATE SCHOOL AND RESEARCH CENTER IN DIGITAL SCIENCE

EURECOM
Sophia Antipolis

CONCOURS Mines-Télécom

Cti
Commission des Titres d'Ingénieur

Jobs with high potential for the future!

- 😊 Artificial Intelligence
- 😊 Future Generation Networks
- 😊 Cybersecurity

Welcome
to EURECOM

Between Nice and Cannes, in the heart of Sophia Antipolis - the European pioneering technopole for innovation - the SophiaTech campus is dedicated to digital science.

2,500	companies
41,300	jobs
4,500	researchers
5,500	students
80	nationalities

Access all videos on student life on our YouTube channel QR code

A unique school

Created in 1991 by Télécom Paris and the École Polytechnique Fédérale de Lausanne (EPFL) as a consortium with renowned academic and industrial members.

Cti
Commission
des Titres d'Ingénieur

CONCOURS
Mines-Télécom

Institut Mines-Télécom

Institut Mines-Télécom,
is a founding member of EURECOM

David Gesbert
Director

"

By enrolling in EURECOM, you will join an international community of brilliant and passionate minds who will design tomorrow's digital society.
Together let's push the boundaries of digital science!

Future-oriented themes

DATA SCIENCE DATA ENGINEERING

A curriculum 100% in English

DIGITAL SECURITY

Internationally renowned professor-researchers

COMMUNICATION SYSTEMS

A dynamic alumni network

MORE THAN **3,200** ALUMNI IN 43 COUNTRIES

A small eco-responsible campus

330 MASTER'S STUDENTS
95 PhD. STUDENTS

A training program to meet the challenges of industry

Placing companies at the heart of the engineering program has been EURECOM's strategy from the beginning.

By receiving practical, scientifically based engineering training, students are the first to benefit from the partnership between the academic world and entrepreneurship.

28 weeks of internships in a company,

98% of interns in industry,

Annual **company fairs,**

Industrial **sponsorships,**

career conferences,

coaching.

Partnering with businesses

"The sponsorship concept has allowed us to enhance the understanding of SAP's needs among EURECOM's brilliant students and to advertise our job, internship and PhD positions directly to them".

Olena Kushakovska,
Director, SAP Labs France

A practical approach...

...... for an increased employability!

A balanced approach between theoretical courses and practical sessions

Lecturers from the business world

A semester-long project on relevant and current topics

A six-month paid internship in a company or lab

A large database of internship opportunities with an average monthly stipend of €1,200

We all live in a connected world which requires communication systems to quickly and securely carry and exchange growing and increasingly complex data.

Digital technology is profoundly transforming our professions. Digital engineers must be solution architects, innovative, agile and open to the world!

Most digital jobs do not even exist yet!

Engineer: A profession with a high potential for the future

Join a dynamic
Alumni network

> ❝❞
> **Silviu Coca,** Class of 2012
> Customer Engineer, Google Cloud

"I loved EURECOM! "Right from the start, I felt part of a big family.

I learned so much, with the cutting-edge courses and professors who are among the best in their field, but also through EURECOM's multicultural environment.

I got to know the other students through the many activities the school offered. EURECOM also helped me find a great internship which was a major boost to land my dream job!" Today, I'm a Customer Engineer at Google Cloud and I'm still using the skills I acquired at EURECOM, particularly in IT security."

> ❝❞
> **Margaux Ledieux,** Class of 2018
> Senior Data Scientist Manager, Microsoft Oslo

Joining EURECOM is the right choice to jumpstart a successful international career for several reasons: the quality and relevance of its courses and the fact that they are taught in English, and the opportunities to build an international network. Our Cloud Computing and Software Development courses were very useful for my first job.

Today, I manage a team of data scientists and engineers at Microsoft in Oslo. But before joining Microsoft, I was able to use the alumni network to weigh in on different opportunities and better prepare myself.

> ❝❞
> **Thomas Coudry,** Class of 1999
> Finance expert

A EURECOM class of 1999 alumnus, Thomas Coudry is Head of Tech Equity Research in an investment bank, Bryan, Garnier & CO. More than 20 years of experience as telecom engineer, strategy consulting and financial manager in the technology sector. An inspiring career!

> ❝❞
> **Thiziri Nait Saada,** Class of 2021
> Doctoral student in Math at Oxford University

I chose the Data Science track and recommend it highly! I'm now doing a PhD in Maths at Oxford, and in my research I often come across publications by EURECOM researchers, which proves that they really are at the cutting edge! I loved my courses (taught in English!) which were completely aligned with the industry and academic expectations, which is priceless in the job market! In fact, I have many friends from other schools who have asked me to share my course notes, including those where EURECOM specializes, to help them prepare for job interviews. Its courses are some of the best I've followed, and their fields clearly very promising. Studying at EURECOM also means living in an exceptional environment, being supported by a friendly faculty that knows you (not just by name) and puts your personal development first. Everyone performs better when they're happy!

An active community on **Linked** **in**

TAKE YOUR CAREER
TO THE NEXT LEVEL!

Entrepreneur Engineer

" **20 years after our incubation at EURECOM, Indigen, the company we founded after graduating now employs nearly 20 people.**

David and I were classmates at EURECOM where we studied engineering. People we've met, projects we worked on, EURECOM's academic, material and financial support convinced us to start this entrepreneurship adventure.

Today, we work for major accounts in the development of web and mobile products. EURECOM is still a shareholder of Indigen, proof of its credibility to our customers and partners, especially in the fields of cybersecurity and data (and AI) where EURECOM has an expertise and a highly-recognized value on the market.

Jérôme Clérico, David Pistori, Class of 2002, Co-founders & CEOs, Indigen

in indigen

tech f⟳rward
by EDHEC · EURECOM · IMT

An incubator committed to transformative technology projects

Based in Sophia Antipolis, TechForward is a young incubator combining the expertise and excellence of three pioneering institutions in their own fields: EDHEC, EURECOM and Institut Mines-Télécom. TechForward provides a personalized one-year support to developers of high-impact technological projects that tackle some of tomorrow's major challenges:

- **Healthy Living**
- **People Power**
- **Climate Change**
- **Digital transformation**

You have ideas and aspire to be an entrepreneur? TechForward will share winning recipes for your future projects! Techforward is open to EDHEC / EURECOM / IMT researchers, students and graduates.

SCAN ME

TechForward in movie

Highly sought-after
profiles

Professions 3.0 - The digital professions are booming, new job descriptions are written every month, and businesses are struggling to recruit suitable candidates. This is good news for EURECOM engineers who can choose between several career opportunities after concluding their internship.

Positions most represented

- IT development
- Research and development
- Digital technology, and audit consultant
- Software editing
- Management, finance

88% are employed within 6 months after graduation
12% pursued their studies

Their companies
79% private
19% public
1% independent workers

1st job average gross salary
48.3 K€ *in France, We note an increase in variable portions and in-kind benefits.*

Quick professional integration
96% of graduates found employment 3 months after graduating

Survey conducted in 2024 among the class of 2023 graduates

Degrees
delivered

DIPLÔME NATIONAL DE MASTER CONTRÔLÉ PAR L'ÉTAT

DIPLÔME D'INGÉNIEUR CONTRÔLÉ PAR L'ÉTAT

- **The EURECOM Engineering Degree**
- **2 national Masters' degrees (Msc)**

- 2 tracks in the Master's in Computer Science :
  - Digital security
  - Data Science

- 2 tracks in the Master's in network and Telecommunications:
  - Intelligent Communication Systems
  - Internet of Things (IoT)

Personalized Support

Individualized assistance
at every step

Feeling comfortable in a new environment is one of the keys to successful studies.

EURECOM offers personalized support at every stage of a student life, from finding housing to helping with administrative procedures.

Assistance housing and internships

A staff at the service of students

Once at EURECOM, students, with the help of their dedicated advisers, select their classes based on their end-of-study or professional project.

These ongoing exchanges between students and staff create strong ties which last beyond their time at EURECOM.

"EURECOM has this distinctive quality of being a relatively small school, which facilitates relationships with the administration and faculty."

As a class representative, my role is to facilitate communication between the students and the administration so that the latter can better achieve its goal of enhancing students' experience".

Rim, Class of 2026

EURECOM
Engineering

1st **year** Admission

Tuition fees 3200 €

Mines-Télécom examination for CPGE students
54 spots in 2024 for the MP, MPI, PSI, PC, TSI tracks

Admission on the basis of qualifications:
Five spots reserved to students:

Preparing or holding a bachelor's in:
- Math
- IT
- Electronics, electric energy,
- Automatism

Preparing or holding a bachelor's degree in one of the following areas:
- Digital science
- Electrical, automatic & electronic engineering
- IT
- Math

Happy index®
at School

SecNumedu
ANSSI

■ **Engineering degree specialization**

Security for Computer Systems and Communications

Five Tracks

in booming fields

- ■ **Data Science**
- ■ **Internet of Things (IoT)**
- ■ **Digital Security**
- ■ **Intelligent Communication Systems**
- ■ **Embedded Systems**

1ˢᵗ year - The fundamentals of digital science

A core year to learn new concepts, work in project mode within a team, and to get ready for your specialization.

Focus on courses taught in English by international professors

Basic IT
Introduction to computer architecture
IT programming
The basics of operating systems

Mathematics for engineers
Human & Social Sciences
Environmental transition & business ethics
Responsible Digital
The challenges of a sustainable macro-economy
Innovation class

Introduction to IT networks and Internet
Introduction to cybersecurity
Introduction to databases
Wireless communications
Image & sound processing
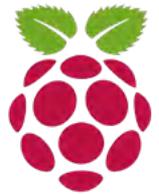
Student project

Introduction to digital professions
Introduction to business internships
Internship in a company

Franck Journeau,
Director of Studies

1ˢᵗ year project

A 200-hour multidisciplinary project on a real-life topic allows each team of 5 students to develop its own technical solution, based on a Raspberry PI-type technological platform. All teams work on the same subject and inter-team challenges are organized to compare the different technical choices and achievements. This multidisciplinary project is the cornerstone of the first year.
This allows students to put into practice the skills acquired in the fundamental courses.
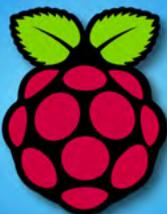
Semester-based **projects**
Practical skills and autonomy

Tailor-made courses
and an applied approach

SEMESTER 1 :
Rising to the challenge!

SEMESTER 2 :
Innovating with AI!

Key assets

- Multidisciplinarity
- Prototype development (prototyping)
- Testing new technologies
- Introduction to digital responsibility
- Project management
- Communication and presentation skills

Areas of expertise

- Raspberry Pi board
- Programming tools and software
- Embedded software development
- Image and video processing
- Audio processing
- Machine and deep learning

The 1st project involves 3 half-days per week. Each group designs a device on a Raspberry Pi platform to aid visually-impaired people through a predefined obstacle course.

The device uses advanced sensor technologies to interpret the environment and provide safe and accurate haptic feedback to aid sightless navigation.

Building on the experience gained in the 1st semester, students begin a more playful but equally formative phase. They are asked to apply their skills to create an innovative version of a classic strategy game, such as Puissance 4. This project uses Raspberry Pi computers to develop a remote gaming system, where interactions are based on gesture recognition and artificial intelligence.

Prof. Massimiliano Todisco

As head of these initiatives, my role is to guide students to stimulate their creativity and enhance their innovative capacity in a collaborative and cutting-edge environment."

A customized
2nd year

A curriculum 100% in English

"Many elective courses allow students to design their own curriculum."

FLEXIBILITY

Students get enough time to make the right choice of courses, they can attend the first course and confirm later.

RELEVANCE

MULTI-DISCIPLINARY

Skills in Business, Innovation, Project Management, soft skills... Engineer-manager double degree with EDHEC Business School.

DOUBLE COMPETENCE

The whole course catalog is open to exchange students who can select any technical courses from the three departments.

An innovative
teaching method

Personalized platforms:

• The Zoé cloud platform

• 5G OpenAirInterface

Cutting-edge software: Jupyter, Raspberry Pi

Students are encouraged to participate

in Hacking Challenges

(See: CTF Team in Digital Security)

Furthering
knowledge

Build your personalized curriculum in the 2nd and 3rd year

Choose a track and select options based on your preferences!

The teaching units mix theoretical courses, practical work, tutorials, planned personal work, challenges...

- **Data Science**
- **Internet of Things (IoT)**
- **Digital Security**
- **Intelligent Communication Systems**
- **Embedded Systems**

Examples of courses

Data processing technologies

Calculation methods for digital communications

Digital systems, hardware-software integration

Algorithms, tools and methods for data processing

Deep-learning

Speech and audio processing

Volunteer project

Additional foreign language

Awareness research

Business simulation

General introduction to law: contracts and business creation

Project management

Strategy geopolitics

2nd year student, Class of 2025
Courses tailored to my professional goals

"At EURECOM, I became bilingual and an IT expert. After the 1st year core curriculum, I specialized in data science, which offered a wide range of courses tailored to my professional goals and ambitions. The emphasis on practical work deepens our theoretical understanding and knowledge. This year, in collaboration with fellow students, I took part in the development of an innovative culinary application. "Let's Cook" recommends recipes based on photos of the ingredients users have at home. The project is a perfect illustration of the innovative and collaborative spirit that I want to pursue professionally.

3ʳᵈ year **Specialization**

Personal project
Double competency

The third year is the time to develop your personal project and prepare your career.

WHETHER YOU WANT TO:

- Go abroad for a study period or an internship
- Take a gap year (for longer internships)
- Carry out a personal project
- Prepare a double degree with a Business school
- Continue your studies with a doctoral thesis
- Pursue a Master 2 in research simultaneously
- Prepare a double degree with an international partner university

The possibilities are many and the school provides you with tools and individualized support to help you implement your project.

Dual engineer-manager degree

The EURECOM-EDHEC dual degree will meet the aspirations of students looking to complement their technological training with management and business education.

Do you want to play a role in a more sustainable digital society?

Do you like technological and human challenges?

We do too! EURECOM students can complement their engineering training by joining EDHEC's program in their second year to receive both EDHEC's PGE diploma and EURECOM's engineering diploma. Taught 100% in English, these courses are available to students from both institutions. Our students enjoy preferential rates at EDHEC. Selection will be made by the home institutions on the basis of academic prerequisites and motivation.

Madleen, Class of 2025

I loved the international environment as soon as I set foot in EURECOM. The courses, led by passionate professors and experts in their field pushed me to excel despite the workload. In fact, it is this very hard work that enabled me to join EDHEC's Master of Finance in September through EURECOM's dual degree. I always wanted to do a dual degree in a business school, and EURECOM gave me this chance. The dual skills in finance and cybersecurity will help me better understand the current challenges of the financial sector, particularly the emergence of FinTech while mastering the crucial aspects of digital security. This will strengthen my career prospects in an increasingly connected and technology-driven world.

Preparing for an international
career

Eloïse, Class of 2023, Digital Forensics Engineer at the Autorité des Marchés Financiers, Paris

Tailor-made courses: EURECOM's strong asset!

It's a real advantage to be able to combine elective courses with the compulsory ones. I wasn't quite sure what I wanted to do when I started, so I tried to develop as many skills as possible.

This proved to be very useful. When looking for an internship, I applied for several specific topics, while still being able to choose the one that I most favored at the end of all the interviews. In fact, I was selected because of a specific EURECOM course, which set me apart from candidates from other schools.

My job involves working with investigators, who call on my team to secure the data that constitute evidence.

Clara, Class of 2023, Erasmus in Turin

Going abroad was a priority for me as I never had the chance before

I spent my gap semester in Turin, Italy. I wanted to further my knowledge in a different educational environment. This decision helped me confirm my choice of specialization.

It was a unique cultural experience, filled with activities and trips, and I highly recommend it.

Today, I am a cybersecurity consultant at Wavestone, where I completed my engineering internship upon my return from Turin.

The six-months engineering internship,
the highlight of the program

A key step to enter the business world

Because of its duration and the responsibilities it gives students, the internship [PFE] becomes a student's first important professional experience that can be put forward when looking for a position.

The final step before graduation, it ends with a thesis and oral presentation before a jury.

Every year, EURECOM's students can review hundreds of offers compiled in a database through its network of partners and relations in the business world who value the school program and its graduates.

95% of interns in private companies

24% of students in a double degree from abroad

7% of students do a gap year

Benjamin, Class of 2023
A gap year for a better future

With EURECOM, I gained expertise in different fields which gave me a wide range of professional options. So, before doing my final internship, I took a gap year to take time to evaluate them. It was a fantastic experience. I traveled and took a month-long course at UC Berkeley. I joined a startup for a few months which gave me new skills and I worked on open source projects that I particularly enjoyed. I gained in maturity and I still feel the positive effects every day.

International DNA
Champion of multiculturalism

Engineers open to the world!

> "What I like most about EURECOM is the large number of nationalities among students, which fosters cultural exchanges."

EURECOM student, HappyAtSchool 2023 survey

330 Master students

100% courses taught in English

95 PhD students

International 70% students 70% professors

28 Professors

42 nationalities

EURECOM
Sophia Antipolis

Membres Académiques

Institut Mines-Télécom
EDHEC BUSINESS SCHOOL
Politecnico di Torino
A'' Aalto University
TUM Technische Universität München
NTNU Norwegian University of Science and Technology
CHALMERS UNIVERSITY OF TECHNOLOGY
CZECH TECHNICAL UNIVERSITY IN PRAGUE
TU WIEN TECHNISCHE UNIVERSITÄT WIEN Vienna | Austria
LIÈGE université

Membres Industriels et Institutionnels

Gouvernement Princier PRINCIPAUTÉ DE MONACO
orange
SAP
iABG
NortonLifeLock
BMW GROUP · BMW · MINI · ROLLS-ROYCE

A UNIQUE STATUS IN FRANCE

Graduate school in France owned and administrated by a consortium of international universities and companies.

Mobility
and double degree

AT LEAST ONE SEMESTER ABROAD

I chose EURECOM because

■ **It was an opportunity to diversify my experience (students from all over the world, geographical location, multi-cultural work groups).**

■ **I wanted to improve my ability to work in English.**

These two needs were met.

I learned a different way of working (fewer hours of classes, more personal work and projects), with quality classes and emphasis on autonomy. I really appreciated the proximity with the professors and administration. Our questions were quickly answered, which is not the case elsewhere.

My goal was to diversify my academic experience to enhance the mobility factor. I appreciated the emphasis given to mobility through the school's partnerships. At TUM, autonomy and research are even more underlined. EURECOM's curriculum is a happy medium between university autonomy (as at TUM) and the French grande école system.

STUDENT

"I appreciated the emphasis given to mobility."

Mahaut, Class of 2022, currently at the Technological University of Munich [TUM]

ACADEMIC PARTNERSHIPS AROUND THE WORLD

AALTO, Academia Sinica, AGH, Chalmers, Czech Technical University, DTU, ESPRIT, ETH Zurich, Hoschule Darmstadt, Innopolis University, Institut Teknologi Bandung, National Chao Tong University, National Research University Higher School of Economics, National Taiwan University of Science and Technology (TAIWAN TECH), NTNU, Politecnico di Milano, Politecnico di Torino, SouthEast University, SUPCOM, Tallin University of Technology, TELKOM University, The Hong Kong University of Sciences & technology - HGUST, TU Darmstad, TU Wien, TU München, Universidad Politecnica de Madrid, Universidad Zaragoza, Universita degli Studi di Napoli Federico II, Universita Pisa, Universität Konstanz, University of Liège, University of Linköping, Lebanese University, University of Oulu, University of Reykjavik, University of Zagreb, UP Catalunya, VNU-HCM, Zhejiang University.

A GREAT SCHOOL

A multicultural campus
in the heart of Europe's leading technology park

Between Nice and Cannes, on the SophiaTech Campus, a campus dedicated to digital sciences in the heart of Sophia Antipolis.

> Ranked by students as one of the top 4 engineering schools for its environment and academic performance!

HappyAtSchool is a certification that ranks student experience and their preferred institutions.

WHAT STUDENTS SAY

"The quality of the education, English as the teaching language, the international environment, and the research carried out."

5/5 ★★★★★

"IT as the core subject matter, the location (south of France), the other international students I met and who made my integration so smooth, the staff always ready to help."

4,3/5 ★★★★★

"The quality of the education, the international and multicultural environment, and the support of the administrative team."

4,4/5 ★★★★★

"The school fosters respect regardless of religion, gender, nationality and appearance."

4,6/5 ★★★★★

www.choosemycompay.com

ENGINEERING SCHOOL RANKED FIRST
HappyIndex®AtSchool 2024 | Focus RSE

ENGINEERING SCHOOL RANKED SECOND
HappyIndex®AtSchool 2024 | Focus Women

The school is ideally located on the Riviera!

Lou
2ⁿᵈ year engineering student, Class of 2025

The timetable is lighter than in preparatory school, and the slots dedicated to projects give us more freedom to organize our work.

I particularly enjoy the individual support provided by the school. We have a lot of freedom in choosing our courses, organizing our work and enjoying student life in the school, while at the same time being supported in our projects and course work.

The biggest advantage at EURECOM is its classes in English and the choice of courses. Not to mention the entrepreneurial opportunities with EDHEC and the introduction to research with professors who are among the best in the world!

Grégoire,
1ˢᵗ year engineering student
Class of 2026

" My decision to join EURECOM after a PSI preparatory year proved to be exceptionally rewarding, giving me complete fulfillment in both education and community life in a beautiful environment.

I joined Junior Enterprise, a demanding choice that gets me involved in the day-to-day challenges and responsibilities of running a company. This unique experience is a fantastic opportunity to test my limits, acquire skills, overcome failures and celebrate successes - all valuable assets for the future. "

Terry, 1ˢᵗ year engineering student
Class of 2025

" The preparatory school at Masséna in Nice was a memorable experience, culminating with successful admission at Mines Télécom. EURECOM has always been a goal for me because of its partnership with the Principality of Monaco.

The courses are varied, interesting, and taught by top-quality professors. EURECOM also has close ties with multiple companies in the digital sector. My status as the first Monegasque student has brought me many opportunities, such as representing Monaco Telecom at the Business Forum, promoting EURECOM's partnership to students at the Albert 1ᵉʳ high school of Monaco, or receiving internship offers from Monaco Telecom or the Monegasque Government. "

A CAMPUS
in a unique location

Tucked between sea and mountains on the French Riviera, the campus is ideally located in a region with a multitude of sports and leisure activities.

Sophia Antipolis boasts many facilities accessible by foot: tennis courts, a golf course, a pickleball court, a swimming pool, a climbing wall, bicycle paths, and hiking and running trails.

To visit the campus,
scan the QR code below

360°

A dynamic student life

At EURECOM, you are encouraged to participate in community life. You'll have access to the many activities organized by the Student Association, or you can create your own club.

Oenology, Club Brasseur, chess and games, improvisation, debate, photography, video, dance, choir, music, mixing, hiking, climbing, caving, running, beach volleyball, skiing, canyoning, sea kayaking, or mountain biking. Or whatever you're passionate about!

bde@eurecom.fr

discover the brochure
ALPHA

TOP **10** reasons to study at Eurecom

Internationally recognized diplomas

Unique lifestyle on the French Riviera between mountains and sea !

100% employability 6 months after graduation

A leading engineering school in the field of ICT linked to top EU Universities

English: language of work and teaching

Location in Sophia Antipolis: presence of top industrial companies

Diversity and International environment

Teaching by world research leaders in their fields

Flexibility in building curriculum

Strong interaction with industry: Access to a wide range of professional opportunities

EURECOM
Sophia Antipolis

**For more information:
admission@eurecom.fr**

facebook

EURECOM Campus SophiaTech
450, route des Chappes,
F-06904 Sophia Antipolis Cedex
Phone +33 4 93 00 81 00

www.eurecom.fr