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

This brochure offers you exclusive contents in reality augmented

ARGO webAR

Terms Page 2

Welcome to EURECOM

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

2,330	companies
38,300	jobs
4,500	researchers
5,000	students
70	nationalities

This brochure is in augmented reality. You can access enriched content, videos, or websites from this QR code.

Scan the pages that display this pictogram.

ARGOplay

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.

Institut Mines-Télécom, is a founding member of EURECOM

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CONCOURS Mines-Télécom

> 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

A curriculum taught in English

Internationally renowned professor-researchers

A dynamic alumni network

A small eco-responsible campus

DATA SCIENCE
DATA ENGINEERING

DIGITAL SECURITY

COMMUNICATION SYSTEMS

MORE THAN 3,000
ALUMNI
IN 43 COUNTRIES

300
MASTER'S STUDENTS
90 PhD. STUDENTS

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A training program to meet the challenges of industries

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.

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Paring 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... ...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
- EURECOM provides students with a large database of internship opportunities with an average monthly support of €1,200 per month

We now 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

Jeanne Grenier, Class of 2020
Cybersecurity Consultant

Studying at EURECOM has opened many doors in cybersecurity because of its high-caliber courses and strong practical work. This still helps me every day in my job!

I was also able to choose courses outside of the cybersecurity curriculum, furthering my knowledge about other topics and building a coherent professional project.

Cybersecurity & Digital Trust Consultant, Wavestone

Suzanne Shoaraee, Class of 2015
CPU audit engineer

I got my end-of-study internship at Arm through the annual company fair" organized by EURECOM.

The cutting-edge technical, human and linguistic knowledge acquired at EURECOM were a major element of success in my internship for which I was awarded the "Best Internship Prize" by the Mines-Télécom Foundation.

I've been working at Arm for 7 years now, and it is important to me to maintain a connection with the school and its vast alumni network.

Therefore it is a pleasure to come back to EURECOM to present the opportunities provided at Arm and to recruit our future talents.

Senior engineer at Arm

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!

Anthime Buquet, Class of 2019
Deep learning engineer

I first learned about deep-learning and research at EURECOM. Passionate about these two fields, I continued on this path during my internship and then as a research engineer in medical imaging in Montreal.

Then, I decided to apply my knowledge to the industry sector. Today I am an artificial intelligence engineer working on the entire production chain, from data processing to the deployment of algorithms.

Deep Learning engineer @ Preligens (ex-Earthcube)

An active community on

LinkedIn

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TAKE YOUR CAREER TO THE UPPER 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 partners 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, which gives a strong 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
& CEO Indigen

indigen

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% are pursuing another

Their companies

81% private
17% public
1% independent workers

Quick professional integration

92% of graduates found employment 3 months after graduating

1st job average gross salary

42 K€ *in France,*
We note an increase in variable portions and in-kind benefits.

Survey conducted in 2022 among the class of 2021 graduates

Degrees delivered

- **One engineering diploma**
- **Four national Master's degree**

DIPLÔME NATIONAL DE MASTER CONTRÔLÉ PAR L'ÉTAT

DIPLÔME D'INGÉNIEUR CONTRÔLÉ PAR L'ÉTAT

Two tracks are offered in the Master's Degree in Science and Technologies in IT:

Digital SecurityData Science

Two tracks are offered in the Master's Degree in Science and Technologies in Networks and Telecommunication:

Intelligent Communication Systems

Internet of Things (IoT)

EURECOM **Engineering**

1st year Admission

Mines-Télécom examination for CPGE students
50 spots for the MP, MPI, PC, PT, PSI, 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

Tuition fees 2650 €

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

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SecNumedu ANSSI

■ One Post Master's degree

Security for Information Systems and Communications

Five Tracks in booming fields

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

Personnalized 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's life, from finding housing to administrative procedures.

Housing & internships assistance

Clara, Class of 2021

Junior DSP engineer, Sequans

If I had to summarize EURECOM in one word I would say: personalized!

I was able to choose my courses with the advice of my head professor and the administration.

The international dimension of EURECOM, the courses in English, the many partnerships with the best European universities (like ETH Zürich in my case) opened me to the world.

With my specialization, I was able to find a job before I graduated!

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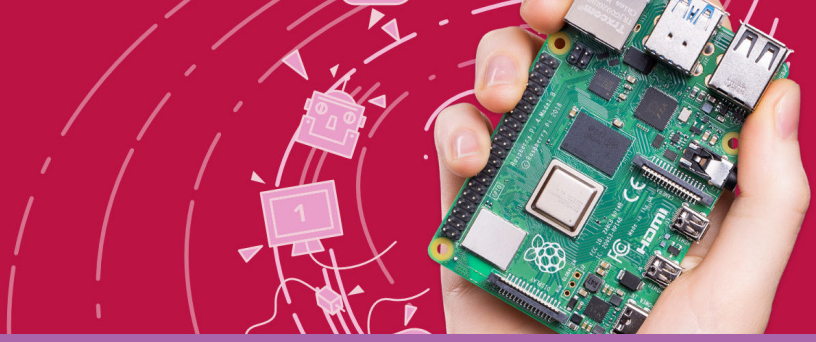
A faculty at the service of students

Once at EURECOM, they consult with their dedicated advisors to select courses based on their professional project.

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



1st year - The fundamentals of digital science

A core year to learn new concepts, team work in project mode and to prepare you for your specialization.

Focus son the 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

Multidisciplinary student project

Introduction to digital professions

Introduction to business internships

Internship 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.

A customized 2nd year

FLEXIBILITY

Students have time to select the courses suited to their project. They can attend a course once, then confirm

RELEVANCE

Numerous elective courses allow students to design their own study program

MULTI-DISCIPLINARY

The course catalog is open to all students. They can choose any technical course in the five areas, i.e. data science, digital security, communication systems embedded systems, internet of things

DOUBLE COMPETENCY

1/4 of the curriculum is composed of non-technical courses: project management, innovation, green economy, foreign languages, personal development and leadership

An innovative teaching method

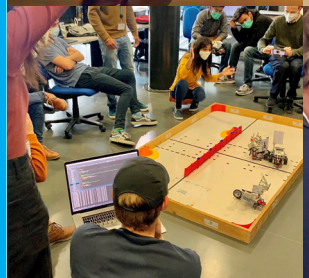
Personalized platforms:

- 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**

Course examples

- 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

Alexis, Class of 2022

What sets out EURECOM from other schools is that you can totally customize your curriculum

I like to try everything, so EURECOM was perfect for me. I was able to specialize in Data Science while also taking courses in networks and cybersecurity. And as I also want to become a manager, I was able to complete my training with management courses!

EURECOM opened new fields of interest to me. These opportunities directly influenced the course of my third year: After completing my management courses, I chose to do a double degree with HEC Paris to improve myself as an engineer-manager.

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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 (to complete one or more internships)
- Carry out a personal project
- Prepare a double degree with a business School
- Continue your studies with a doctoral thesis
- 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.

Pierre, Class of 2021

After my 2nd year in data science at EURECOM, I decided to do the PIC Master's degree (Project-Innovation-Conception) in strategy and innovation management at the Ecole Polytechnique. This master's is a work-study program and I chose L'Oréal within BeautyTech.

One may ask why join L'Oréal after an engineering school and a data-oriented curriculum? Well, L'Oréal is facing huge challenges in the field of data transformation as well as in the world of operations, between industry 4.0 and a supply chain to reinvent.

My curriculum opened the doors to the business world and led me to join a French industry with strong values!

I decided to stay at L'Oréal and join the Graduate Program at the operational level. I was then hired full-time while doing 3 rotations of 4 months on 3 different positions (factory-product development-supply chain) to then pick the position that best suited me!

Louis, Class of 2020

EURECOM is much more than a school; it teaches you the skills required to become a top level engineer. But the international aspect is unique to the school. If I had to use one word to describe it, it would be: cosmopolitan.

After my 2nd year I did a gap year with two internships, one being in Germany.

I did my 3rd year at NTNU in Norway and I signed a contract with a Norwegian company before finishing my last semester.

My exchange totally oriented the beginning of my career!

The 6 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 business

5% in a research lab or a ministry

24% of students in a double degree from abroad

7% of students do a gap year

Jean-Baptiste, Class of 2022

A gap year for a better future

I chose to do a gap year to take a step back, give more meaning to my choices, and have a clearer idea of what I wanted to do next.

This high-level curriculum with a focus on practical skills has helped me feel comfortable in the corporate world because I am technically proficient. I am used to working in an international and cutting-edge environment, partly because of the diversity of EURECOM's courses. This was key to a seamless transition to TotalEnergies and Thales, the two six-month internships I did during my gap year.

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International DNA
Champion of multiculturalism

Engineers open to the world!

We try to impart the highest state of knowledge and practical skills to students.

Our goal is also to help them find their way in a complex and ever-changing world and make them aware of the ethical and cultural values they need to become highly qualified professionals and responsible citizens.

100% of courses taught in English

310 Master's students

95 Doctoral students

70% International students

85% International professors

27 Professors

33 nationalities

A UNIQUE STATUS IN FRANCE

A French engineering school administered by a consortium of international universities and businesses

Mobility and double degree

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.

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 to study in

A unique location on the French Riviera

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.

360° **VIRTUAL VISIT**
Start a virtual tour of the campus

A dynamic student life

At EURECOM, you are encouraged to participate in the 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!

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Happy index® at School

Ranked by students among the 4 top engineering schools, with the best qualify of life.

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A CAMPUS
in a unique location

10 good reasons to join EURECOM

- A leading engineering school in digital science with partnerships with the best universities in Europe.
- A unique lifestyle on the French Riviera Between the sea and the mountains
- 100% employability 6 months after graduating
- A degree recognized by the CTI and valued by recruiters
- English is the language of instruction and work
- Located in Sophia Antipolis close to major industries
- Diversity in an international environment
- World-renowned professors who are experts in their fields
- Flexibility to design you curriculum
- A strong interaction with industry: access to a wide range of professional opportunities

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