

A leading institution at the heart of the digital society



TOP REASONS TO DO EXCHANGE STUDIES AT EURECOM



KEY FACTS ABOUT EURECOM

300 Master students

75 Phd students

25 Professors

3

Main fields of
research and
teaching

Data Science

Digital Security

Communication Systems

A consortium of **8** universities
and **7** companies



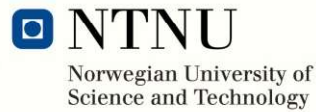
300

Days of sun
on the
French Riviera





Academia

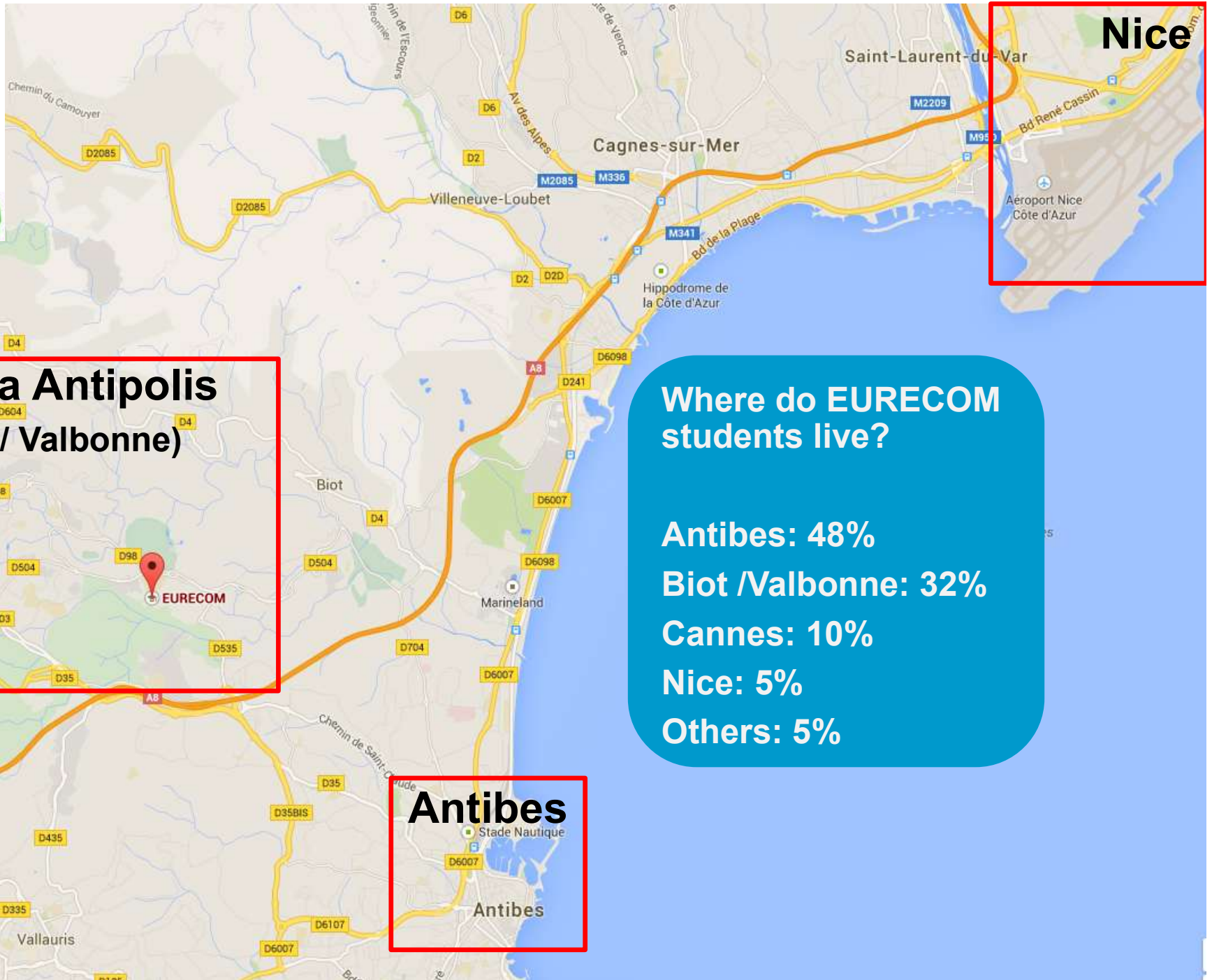


Industry and institution



EURECOM is part of a brand new campus called SophiaTech and benefits from cutting-edge facilities





EUROPEAN SILICON VALLEY

EURECOM is located in the heart of SOPHIA ANTIPOLIS



2,330 companies
36,300 jobs
4,500 researchers
5,000 students
70 nationalities

One of the largest techno-parks in Europe

Some of the top companies offering internship opportunities to our Master & Post Master students:



THALES



Alcatel-Lucent



DLR, NXP, Magnetti Marelli, PSA, KMPG, Delivery Hero Germany, Technicolor, HP, Nokia, CEA, Accenture

ITS AREAS OF EXPERTISE



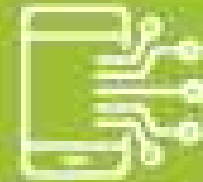
DATA SCIENCE & ENGINEERING

- Machine learning, deep learning and statistical modeling
- Big Data
- Data science & Data Mining
- Business Intelligence
- Artificial Intelligence



DIGITAL SECURITY

- system and software security
- Applied Cryptography and Security Protocols
- Biometrics and Digital Media

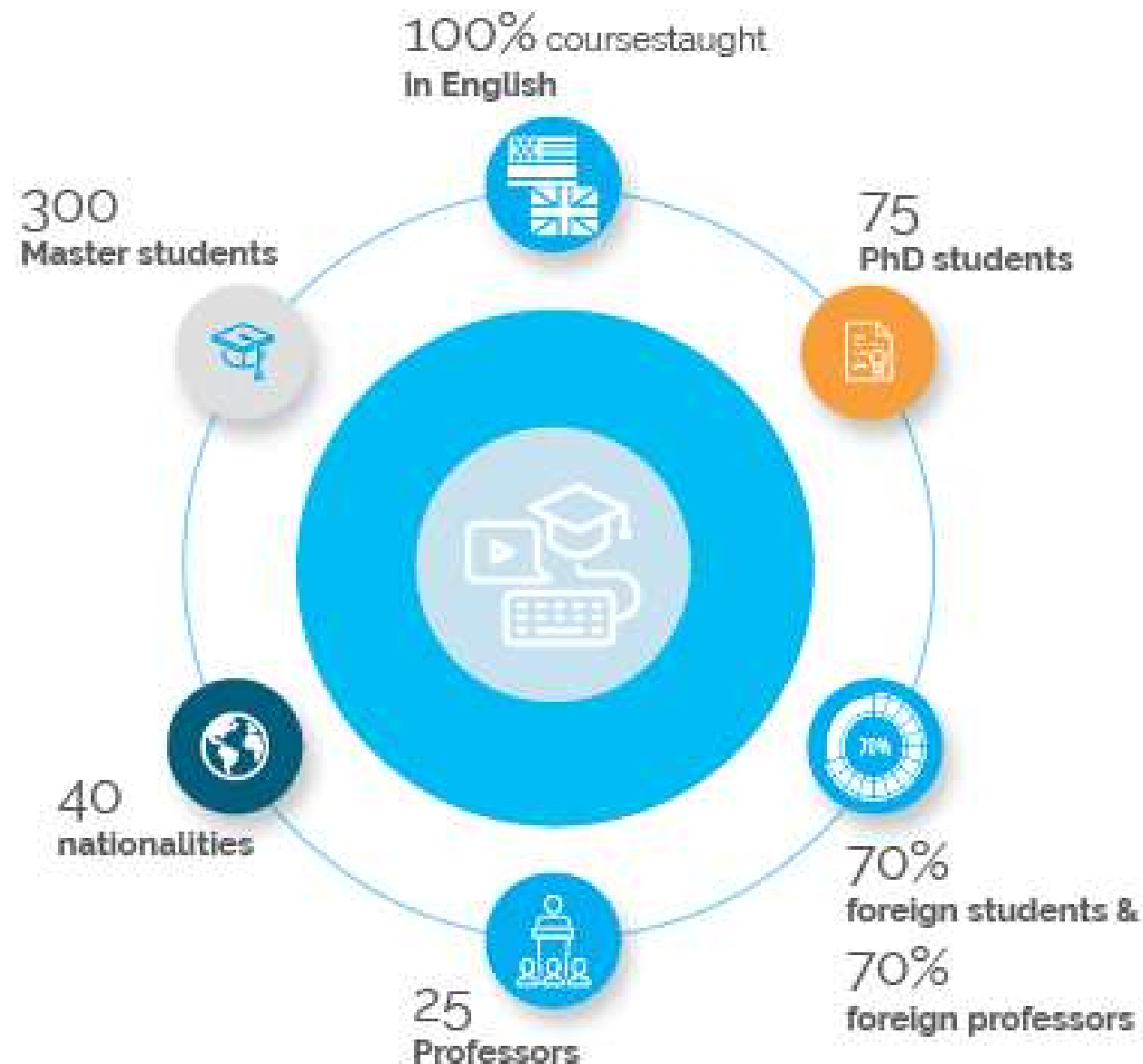


COMMUNICATION SYSTEMS

- Internet of Things
- 5G
- Wireless Communications
- Mobile Communications
- Mobile Networking
- Mobile Applications and services
- Telecommunications

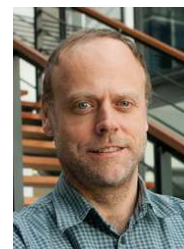
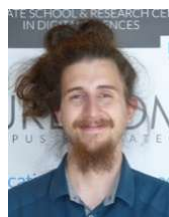
Diversity is not the exception: it's the norm !

A VERY INTERNATIONAL SCHOOL



INTERNATIONAL FACULTY

25 **14**
Professors nationalities



SMALL IN SIZE BUT BIG IN VISIBILITY!

EURECOM's Faculty has achieved world-wide recognition in their field thanks to major research achievements

- **332** Scientific Publications
- **207** Top International Conferences
- **29** Average H-Index

3 ERC Grant:

Two in Mobile Communications

One in Digital Security

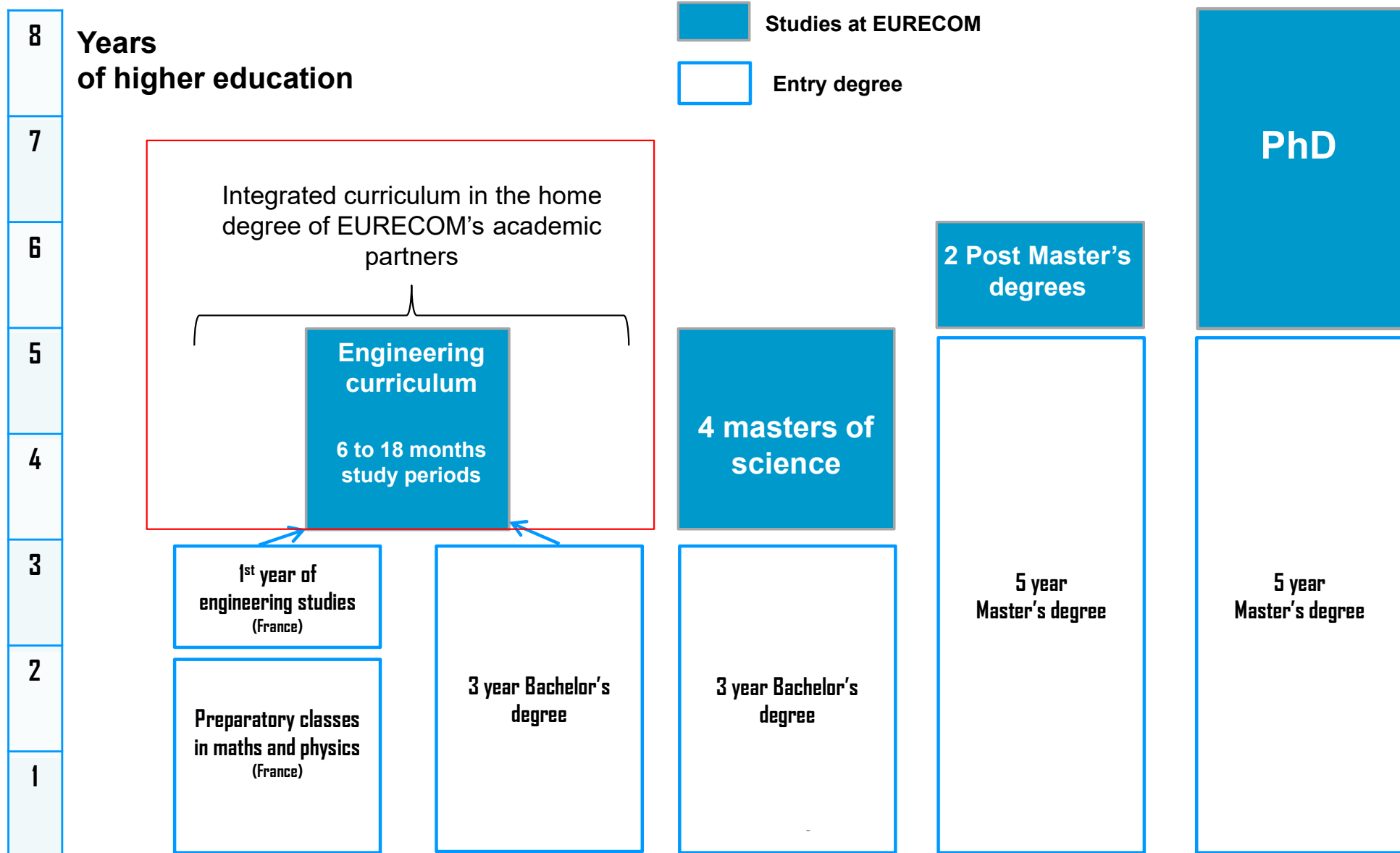


EURECOM is a partner in Europeans Double Degree Masters programs

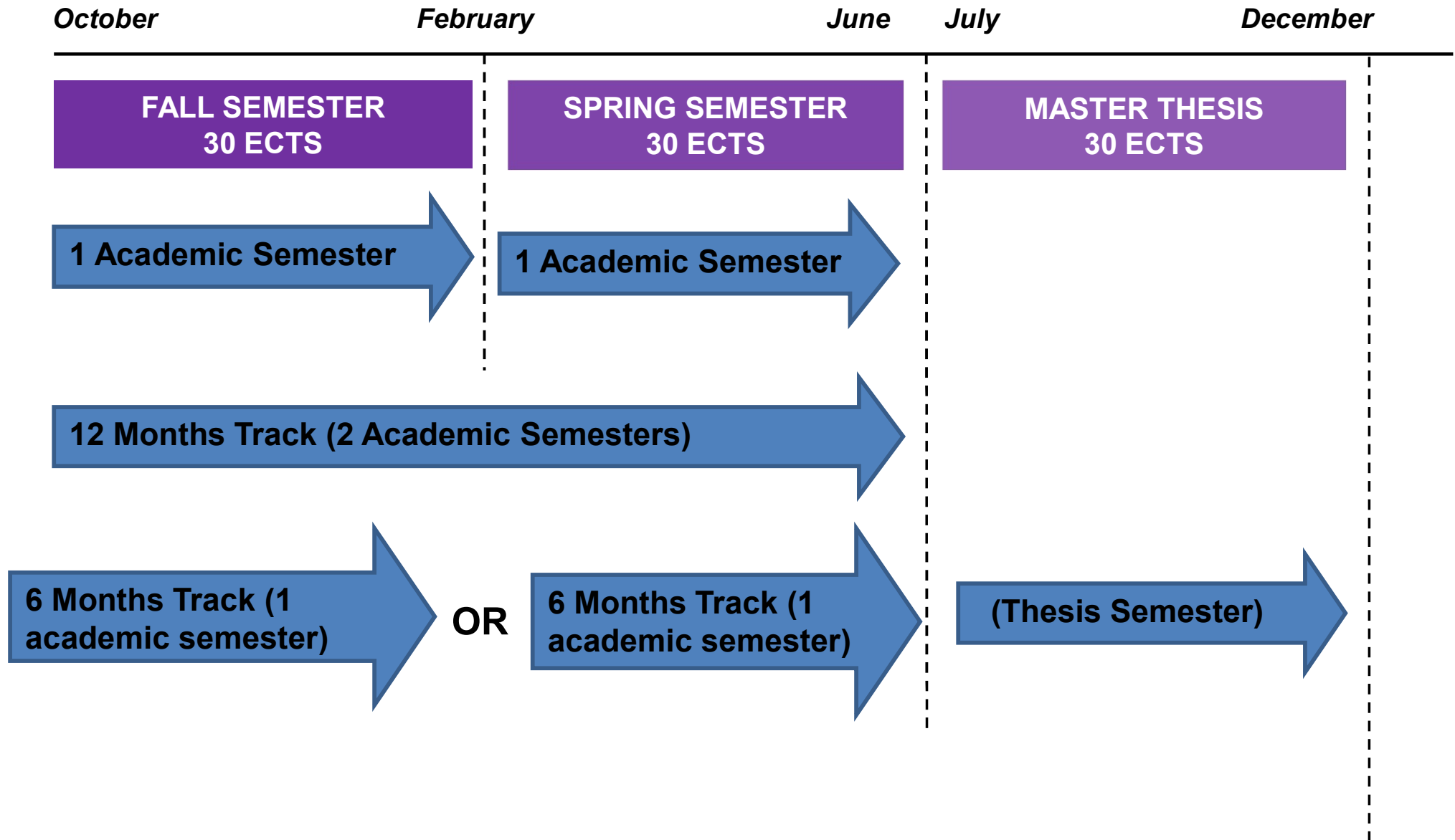
- ✓ Big Data Security
- ✓ Sensing, Communicating and Processing Big Data for IoT
- ✓ Mobile Systems and Security



EURECOM's CURRICULA



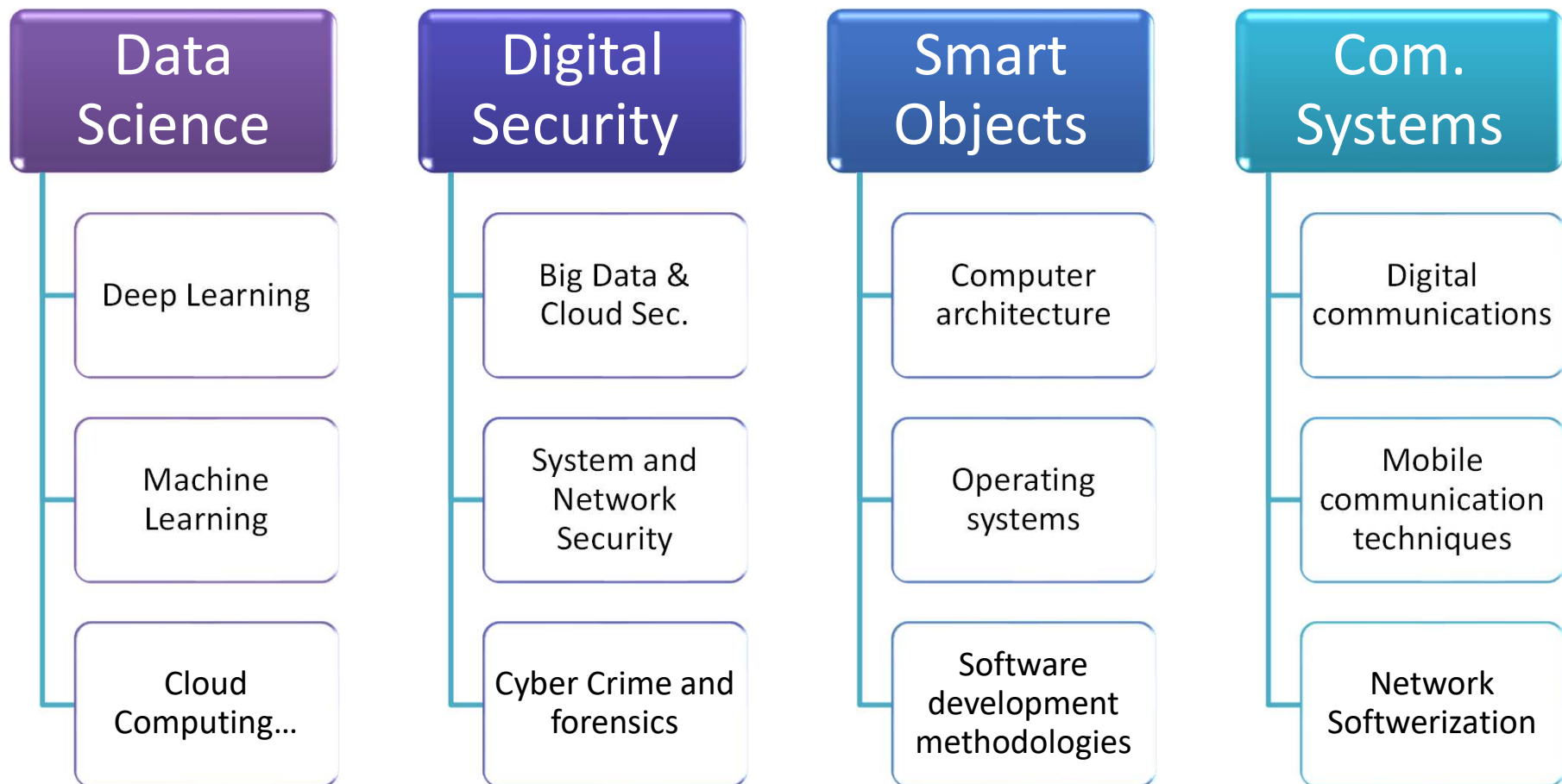
STUDENT MOBILITY



STUDY TRACKS

Courses are organized into 4 Study Tracks with several compulsory courses and the rest being elective. More information: <http://www.eurecom.fr/en/teaching/engineering-studies/18-months-curriculum>

You pick the courses you wish among 4 study tracks



FLEXIBLE CURRICULUM

EURECOM's organisation is very flexible and allow students to design their own curriculum (if approved by their home university).

The whole catalogue of courses is open to exchange students.

TECHNICAL COURSES

FALL SEMESTER (OCTOBER-JANUARY)

Technical courses		
T	ATMM	Advanced topics in multimedia
T	ATWireless	Advanced topics in wireless communications
T	Clouds	Distributed Systems and Cloud Computing
T	CompArch	Computer architecture
T	DigiCom	Digital communications
T	EmSim	Emulation and simulation methodologies
T	G_Theory	Game Theory
T	ImCompress	Image and video Compression and Processing
T	InfoTheo	Information theory
T	MALIS	Machine Learning and Intelligent System
T	MathEng	Essential Mathematical Methods for Engineers
T	MMIR	Multimedia indexing and retrieval
T	MobCom	Mobile communication techniques
T	MobMod	Mobility Modeling

NON TECHNICAL COURSES

FALL SEMESTER (OCTOBER-JANUARY)

General courses		
G	Entrep	Entrepreneurship and Capital-Venture
G	GreenIT	Sustainable ICT's
G	Innov	Innovation & new product development
G	ManagIntro	Introduction to management
G	Property	Intellectual property law
G	TeamLead	Personal Development and Team Leadership

CONTENT OF THE CURRICULUM

Technical Courses

- Innovative courses, designed in partnership with EURECOM's academic and industrial members.
- Regularly assessed and updated.

Non Technical Courses

- 1/3 of the curriculum. « **Soft skills** » MBA type classes taught by experts from companies or professors from renowned business schools in Law, Management, Business simulation...

Semester Project

- Blend of theoretical and practical work under the supervision of a professor, often involves the building of a prototype. In teams of 2/3 students. (Around 90-100h per semester)

Foreign Languages

- Any foreign language can be taught provided there are 5 students min. with a similar level.

Master's Thesis

- Thesis on an industrial or research subject carried out in a company or a lab during 6 months. EURECOM maintains an updated database.
- Students are paid and integrated as part of the company' staff.

INNOVATIVE LEARNING METHODS

- Main developer of a dedicated (GPU)-cloud platform to perform analytics on demand, <https://zoe-analytics.eu/>
- Use of cutting-edge software for Data Science :Jupyter, Collab, ...
- Students encouraged to participate in Capture The Flag competitions (Hacking Challenges)
 - 2nd place at CSAW 2017 (Europe)
 - Co-Organizer of DEFCON CTF



HANDS-ON APPROACH

- **Balanced approach between theoretical input and practical application (Labs, Challenges..)**
- **Guest Speakers from the Industry**
- **Semester long projects on relevant industrial topics**
- **Visits in nearby companies and introduction to new technologies**



SEMESTER's PROJECTS

Students choose a topic and work on project which is highly related to research and/or industrial partnership. It can be about developing a prototype, finding a solution to an identified problem...

The aim is to put into practice the concepts learnt in class and gain a **valuable practical and/or research experience**.

- Students work in team under the supervision of a professor.



Some recent examples of students projects

- Web Interface , Semantic Web, Sensor Networks & Security
- Online Game to teach Reverse Engineering
- Statistical tests of machine-learning algorithms with applications in security
- Collect and analysis of dynamic data on Twitter
- Where is my money going ? Following the bitcoin money trail
- Automated Identification of Android Malware Using Classification Techniques
- Surveillance networks : How to build surveillance networks from a communications point of view, what are the networks limits and will the big brother win
- Prototype of Cloudup: Secure Deduplication with encrypted data for cloud storage
- Monitoring Android baseband system status for GSM fuzzing
- A game-theoretic analysis of the economic issues in ISP regulation
- People tracking with autonomous UAVs based on AR.Drone 2.0



MASTER THESIS OPPORTUNITIES (1)

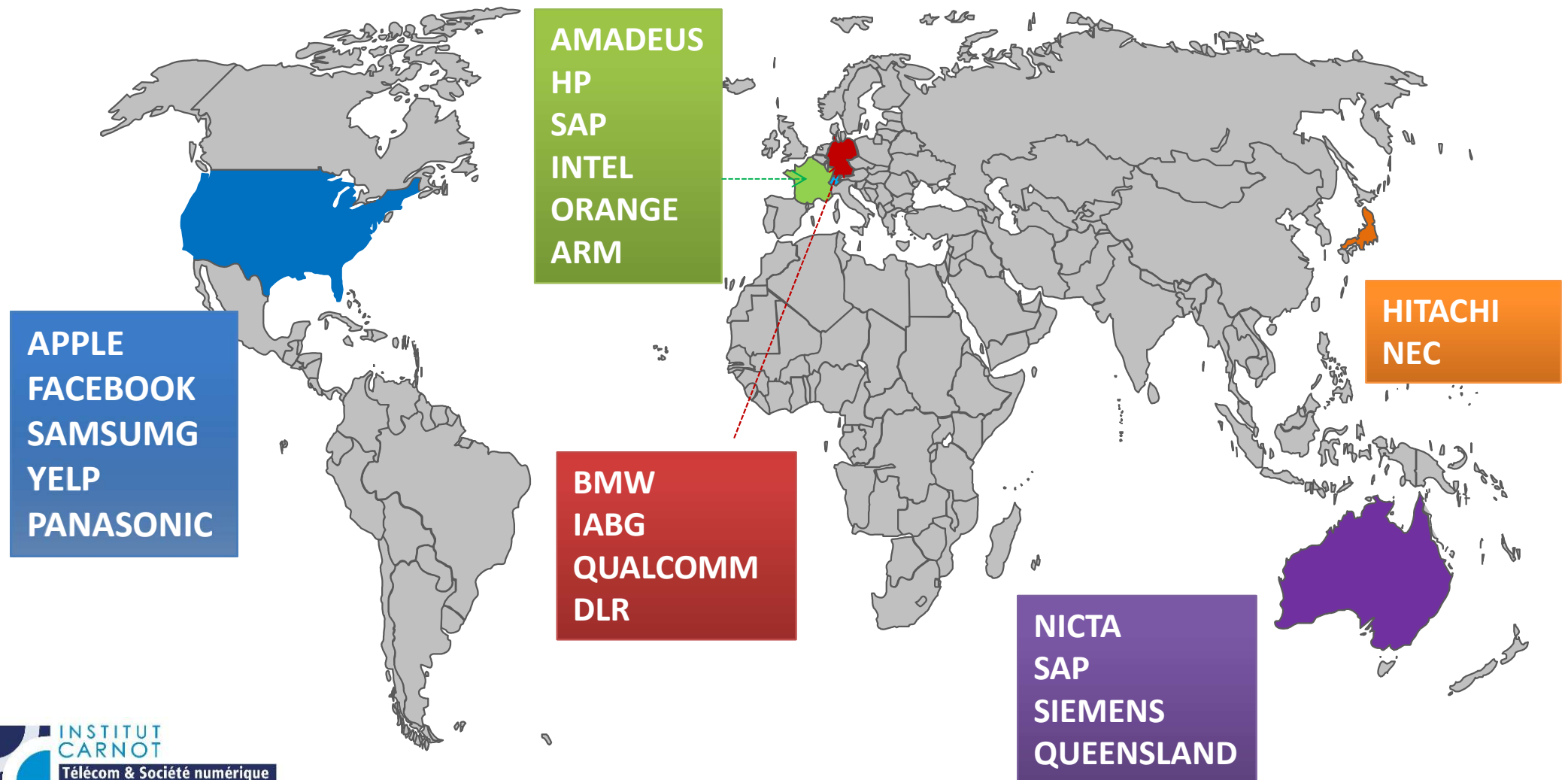
- Master's programs include a paid 6-month internship (master's thesis) in a hi-tech company or lab - a unique industrial exposure and competitive asset on the job market!
- EURECOM gives students access to its database of internship opportunities in prominent companies both in France and Abroad.

Example of internships (Places and Topics)

AFD Technology	International GSM Roaming
ALCMEON	crawl, and large-scale processing of UGC (User Generated Content)
AMADEUS	iPhone application for online flights shopping
ATOS	Network security
BMW	Security analysis and specifications of the fedust protocol
CISCO Systems Inc.	Router's Penetration Testing
Commsquare	Protocol Analysis in IP Mobile Networks
EUREVA	Developing a Cloud-Computing visualization solution
NOKIA	TCP Response to Lower-Layer Connectivity-Change Indications
ORANGE	Practical Network security applications in a network provider environment
PHILIPS ELECTRONICS	Study of the influence of NAT in triple play networks
SAP	Security mechanisms for the Internet of Services
SecludIT	Security Audit in cloud infrastructures
ST MICROELECTRONICS	Evaluate the feasibility of particular kinds of multi-fault attacks against RSA
SWISSCOM Innovations	Network access control
TECHNICOLOR	Design and evaluation of a hybrid cloud for dynamic workloads
THALES ALENIA SPACE	network access control with port based security

MASTER THESIS OPPORTUNITIES (2)

EURECOM provides students with a database of Master's thesis opportunities in labs and companies in France and abroad.



OPPORTUNITIES IN SOPHIA ANTIPOLIS (3)

EURECOM students can browse a database of several hundreds of offers, fueled by the efficiency of its network of partners and relationships with **local**, **national** and international companies.

Some of the top companies offering internship opportunities to our Master & Post Master students:



DLR, NXP, Magneti Marelli, PSA, KPMG, Delivery Hero Germany, Technicolor, HP, Nokia, CEA, Accenture



WHY EURECOM?

ENHANCED EMPLOYABILITY

DURING

- Very strong ties with major actors in industry, not only in Sophia but in the whole world
- **6-month Paid Master Thesis in a company or lab** (EURECOM provides students with an updated Database of internship opportunities)

Average monthly allowance:
1200€/month

AFTER

- 99% of our Graduates find a job between 0 -12 months after graduation (93% from 0 to 3 months)
- 75% have an annual salary between 40K€ and +75K€
- 97% satisfied by EURECOM's education
- 90% declare professional career = career aspirations

INDIVIDUAL ASSISTANCE

- **Human-size school: Accessible professors and staff**
- **Favorable professor/students ratio**
- **A whole team dedicated to student's administrative life**
 - Administrative assistance: Health insurance, housing, bank account...
 - Help to find a flat and an internship



EURECOM
Student Affairs Team

LANGUAGE AND CULTURAL TRAINING

- A 3-week Intensive program of French language and cultural visits organized in September
- Included in the program (Free of charge for Exchange Students)
- Weekly French courses throughout the academic year



STUDENT ACTIVITIES

EURECOM has a very active Student's association organises many events all year long to fully enjoy your stay in France.



Weekend of Integration



International Meal



International Study trip



Ski Weekend



Many sport activities



Graduation and Alumni Events

AN UNPARALLELED LOCATION

EURECOM's localization allows our students to enjoy culture, sports and discovery.



60 km from Italy



Gateway to main European Cities with low cost flights



Fine Arts



**Like the cinema ?
Enjoy the Festival de Cannes**

FANCY LIVING IN A VILLA?



*1h30 from the sky
slopes*



30 min the beach



A few words from past exchange students at EURECOM (1):

- *Leaving Trondheim in mid February and arriving under the sun of Côte d'Azur is not only a remarkable change of climate, the **EURECOM staff are also very helpful** with all administrative tasks making the transition fast and easy.*
- *Coming to campus you find yourself in **a state of the art research driven environment**; the professor / student ratio is one of the major differences to NTNU.*
- *It is really cool to work with the **professors that have written some of the most referenced articles and books in communication.***

I'll strongly recommend spending a year at EURECOM to anyone.

It was an educational and social experience I'll never forget!»



A few words from past exchange students at EURECOM (2):

We (*Janita, Jomar, Eirik, Christian, Fredrik, Amund, Marius, and all*) went to EURECOM in order to do something a bit different for our fourth year, and it turned out to be a great choice. Here we get:

- *Smaller courses* of 5 or 3 credits, meaning you can get a quite broad spectrum.
- A *great fit with the track* we are taking back home - getting the course choices approved is not very difficult. (We are from elsys, komtek and data).
- A very *international* group of friends



- Good *financial support* from erasmus, lånekassen and CAF.
- Super *nice weather*!

Are you considering EURECOM for a semester or two abroad? Kjør på!

A few words from past exchange students at EURECOM (3):



Eino Virtanen

Former AALTO student at
EURECOM

"I definitely recommend EURECOM!"

The university building is small and all students are exchange students, so the atmosphere is very positive and social.

The professors are from many different countries and are motivated to lecture and research.

The topics of the courses and research are timely and that boosts studying motivation.

Cote d'Azur as a location is awesome, because here we have only a few months of the "Finnish spring" and the rest of the time it is summer.

One should not fear the infamous bureaucracy of France, because there are many members of the staff of the university, that gladly assist with all the practicalities.

There are multiple opportunities to learn the French language, but knowing the language is not a requisite, as everything can be done in English."

A few words from Ivan, CTU student that took DD at EURECOM:



“Well, a year spent at EURECOM was definitely magnifique!”

Level of education is high here, so don't be surprised that you will be required to work a lot. On the other hand, knowledge you're getting here, is up to date with what industry requires and more often even beyond it (since EURECOM is not just a university, it is also a research center).

University administration, teachers and assistants are very friendly and tending to help you in case you got stuck with something. It's almost like a small family :)

As well as getting in touch with modern trends in industry, you will have an opportunity to explore an amazing location of Cote d'Azur. There is no need to introduce French Riviera, just have a look on the map and see the distances between all famous locations. There is actually a lot to visit!.

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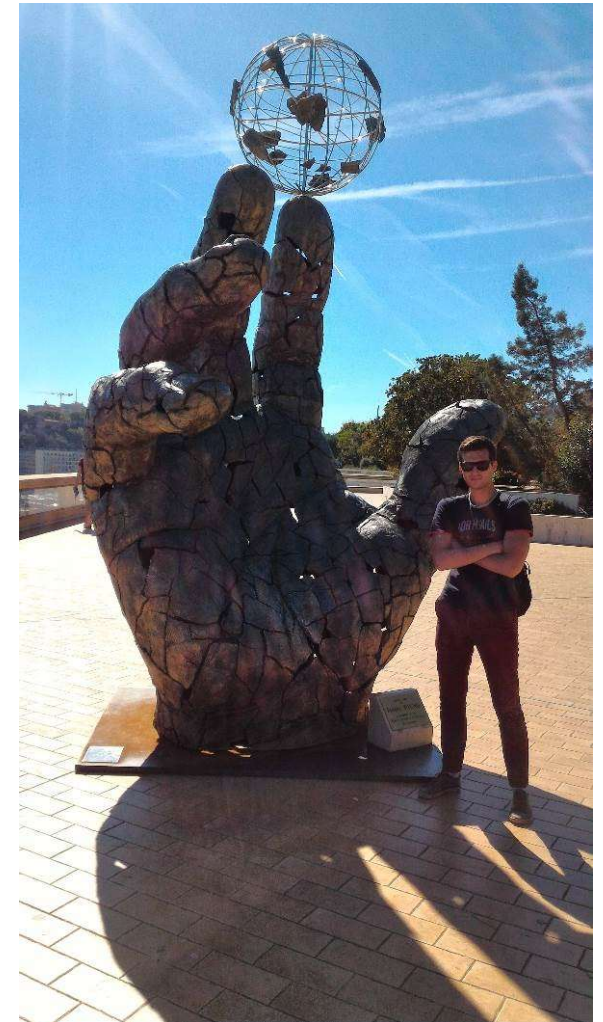
...

Also, since there is quite few students (from all over the world), you will easily get your “travel buddy” or “chillin’ buddy” with who you will have (for sure a lot of) great memories and fascinating trips all over the seashore.

For me personally, it was a great experience and I’m really grateful, that I had this opportunity.

Life wouldn’t be the same after spending some time here. You will get new opportunities, new friends and warm memories.

Long story short, if you’re looking for some changes in life, a good adventure or a good time, this is the right place! “



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