

Mobile Computing Systems

ACCREDITATION

National Accreditation by the French Ministry of Education, Higher Education and Research.

KEY WORDS

Big Data, Cloud Computing, Distributed Systems, Statistical Learning, Data Mining, Machine Learning, Optimization

STRONG POINTS OF THE PROGRAM

- The teaching program benefits from a unique location and from the expertise of renowned industrial partners.
- EURECOM is located in Sophia Antipolis, Europe's largest technology park, a hotbed of internships and jobs opportunities for students.
- EURECOM is a consortium of leading international universities and top ICT companies and has established a synergy with the local industrial environment on advanced research topics.
- During their Master, students will have access to cutting-edge technological platforms within EURECOM's Wireless Communications Laboratory.
- Students are supervised by an international faculty of renowned researchers.
- 6-month paid internship which provide a cutting-edge experience. EURECOM has its own database of internship offers in several countries.
- The program includes an intensive French language course prior to the beginning of the academic year
- Fully dedicated staff providing administrative support to international students
- A strong international exposure providing essential intercultural tools (only school in France with 2/3 of international students and professors)

SCHOOL OFFERING THE MASTER

EURECOM, a «Grande Ecole» with a 100% curriculum in English. It is located on the French Riviera, between Nices and Cannes.

The degree is co accredited by Institut Mines Telecom, Paris.

INDUSTRIAL PARTNERS

BMW Group, IABG, Orange, Monaco Telecom, SAP, ST-Microelectronics, Symantec.

LANGUAGE OF TEACHING

100% teaching in English. French is taught as a foreign language throughout the program. A 3-week intensive French course is organized in September.

ENVIRONMENT

The rapid development of mobile systems (LTE, WIFI...) is providing advanced transmission technologies to support new applications and services (video streaming, web access, social networks...). The background of Engineers working in mobile communications ranges from physical layer (wireless communications theory and implementation aspects), mobile networking (based on IPV6), to applications (for smartphone, tablets...). The master in Mobile Communications addresses jointly all the techniques that were traditionally treated in a separate fashion in wired networks.

COURSE AIMS

- Provide the theoretical background and the applied know-how for engineers in Mobile Communications Systems.
- Learn to tackle problems from a system viewpoint, taking vertical cut and following a cross-layer approach.
- Acquire and master tools and methods to follow the rapid evolution of technology and provide solutions leading to future generations of systems.
- Acquire managerial knowledge to provide innovation in Mobile Communications Systems (Project Management, Organization, innovation management...).

PROGRAM

- Mobile Communication Systems
- Mobile Communication Techniques
- Advanced topics in Wireless communication
- Digital Communication
- Statistical Signal Processing
- Mobile application and services
- Network modeling
- Radio Engineering
- Wireless Access technologies
- Mobile Networking
- Mobile Advanced Networks
- Signal Processing Technologies
- Channel Coding theory
- Signal Processing for Communications
- Introduction to Management
- Personal development and Team Leadership
- Entrepreneurship and Capital Venture
- Innovation and new product development
- Business Simulation
- Sociological approaches of telecom technologies (course given in French)
- Project Management
- Sustainable ICT's (Green IT)
- French as Foreign language
- Intellectual property law
- General introduction to law

ADMISSION REQUIREMENTS

Entry requirements include a Bachelor's degree in the engineering fields covered by the Master program (Electrical engineering / computer sciences / communication engineering...).

LANGUAGE REQUIREMENTS

English (at least one of the following)

- Mother tongue;
- Previous degree obtained in an English speaking country;
- English Language Qualification
 - TOEFL 550 PBT 213 CBT 79-80 IBT
 - IELTS: 5.5
 - TOEIC: 750
 - Cambridge CAE



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■ APPLYING

All applications should be made online:

→ <https://www.eurecom.fr/en/postulant/new>

The documents should be sent by post to the following address:
EURECOM Admission Masters Campus SophiaTech
450 Route des Chappes
CS 50193
06904 Biot Sophia Antipolis cedex
FRANCE

The website provides full information on application procedures:

→ <http://www.eurecom.fr/en/teaching/master-science/msc-mobcom>

■ COMPETENCES ACQUIRED

- A global view of the major challenges of future Mobile Communications Systems
- A strong theoretical background in communications and networking to address the fixed /wireless convergence
- Knowledge of the most recent industrial developments and standards
- Introduction to advanced research topics

■ TYPICAL JOBS

The Master of Science in Mobile Communications gives access to the Telecom Equipment industry, to the Telecom Operators industry and to the academic/theoretical research world. All national and international institutions in the field of communications systems provide career opportunities to graduated students:

- Operators
- Telecommunications industry
- Consulting companies in Information Technologies
- Regulators
- Software editors
- Semi conductor industry
- Other industries (car manufacturers...)

■ PROFESSIONS

- Research and development in Communication Systems
- Network Consulting
- Network Architect
- Communications Software Development
- Communications Hardware Development
- Project Management
- Telecom Policy Making

■ COST

11,000 Euros (4 semesters)
5,000 Euros Europe and Erasmus zone
Possible partial fee waivers and scholarships.

■ DURATION

2 years (starting in september):
3 semesters of courses followed by a 6-month paid internship in a lab or company.

■ DETAILS OF SCHOOL

EURECOM
Campus SophiaTech
450 Routes des Chappes
CS 50193
06410 Sophia Antipolis
FRANCE

→ www.eurecom.fr

Tel: +33 (0)4 93 00 81 00
Fax: +33 (0)4 93 00 82 00

Admissions:
admission@eurecom.fr

■ LODGING

Accommodation is organised with the Administration Staff of EURECOM in student halls of residence, rooms or shared flats.

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