ACCREDITATION
National Accreditation by the French Ministry of Education, Higher Education and Research. The degree can lead to enrollment in a Phd program.

KEY WORDS
Wireless Communications, Mobile Communications, Mobile Networking, Mobile Applications and Services, Telecommunications, Signal Processing Technology.

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 internationally renowned researchers.
» A 6-month paid internship which provides a cutting-edge experience. EURECOM has its own database of internship offers in several countries.
» A fully dedicated team 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 Nice and Cannes. The degree is co accredited by IMT (Institut Mines-Télécom).

INDUSTRIAL PARTNERS
BMW Group, IABG, Orange, Monaco Telecom, SAP, Symantec.

LANGUAGE OF TEACHING
100% teaching in English. French is taught as a foreign language throughout the program. A 3-week program of intensive French courses is organised in September.

ENVIRONMENT
This Master provides a comprehensive set of competences in Communication Systems: from physical layer (wireless communications theory and implementation aspects), mobile networking (based on IPv6), to applications (for smartphone, tablets...). Sophia-Antipolis is considered a major European region for telecommunications research and development in southern France. EURECOM has established over the years a synergy with the local industrial environment on advanced research topics.

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
The Master’s program is made of 4 full-time semesters: 3 semesters of courses followed by a 6-month Msc thesis in industry or in a research lab.

Scientific and Technical courses
» Information theory
» Essential Mathematical Methods for Engineers
» Mobility Modeling
» Fundamentals of Optimisation
» Distributed Systems and Cloud Computing
» Operating systems
» Secure communications
» Software development methodologies
» 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

Soft skills / Management modules
» 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)
» Intellectual Property Law
» General Introduction to Law

Also part of the program:
» Company visits and seminars
» Scientific and Technical Projects
» French language
» Professional coaching (workshops on CV/professional interviews)
» 6-month thesis in Industry or Research lab
MOBILE COMPUTING SYSTEMS
MASTER OF SCIENCE

ADMISSION REQUIREMENTS
> a Bachelor’s degree (3 years min) in the engineering fields covered by the Master’s program (Electrical engineering / computer sciences / communication engineering...).
> B2 level in English

LANGUAGE REQUIREMENTS
English (at least one of the following)
> Mother tongue;
> English Language Qualification
  – TOEFL 564 (PBT), 213 (CBT), 80 (IBT)
  – IELTS: 5.5
  – TOEIC: 750
  – Cambridge CAE

APPLYING
All applications should be made online:
https://www.eurecom.fr/en/postulant/new
The website provides full information on application procedures:

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 in Mobile Computing Systems 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
Tuition fees for the full program (2 years):
€12,000
€6,000 (European Union 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.

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

SCHOOL CONTACTS
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06410 Sophia Antipolis
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