

The Communication Systems Engineering Master Degree is an international Master program taught in English and offered jointly by Grenoble Institute of Technology and Politecnico di Torino.

The primary goal of the Communication Systems Engineering Master degree is to train students for successful careers in telecommunications systems engineering.

Students who successfully complete this training are able to design and supervise communication systems: from point to point communication links to more complex heterogeneous networks.



Grenoble Institute of Technology

For more than 100 years, Grenoble Institute of Technology has trained engineers and doctoral students in key technologies. Through excellence in teaching and research as well as close links to industry, the scope and influence of Grenoble Institute of Technology continues to grow. The institution has recently undergone a completed reorganization, with 22 fields of engineering study, organised in 6 scientific and technological areas associated with 26 research laboratories.

www.grenoble-inp.fr



Politecnico di Torino

Politecnico di Torino is Italy's oldest Technical University. It offers top-ranking educational programs in Engineering and Architecture. Students amount to 26,000, 10% are foreigners. Faculty staff amounts to 900 professors and researchers. Politecnico di Torino interacts with the local social and economic context, as well as with companies and research centers from all over the world. Six Faculties are in charge of education and 18 Departments of research.

www.polito.it



Admissions

To be admitted to the program, candidates must have previously completed their undergraduate studies and been awarded a Bachelor degree either in Science (BSc) or Engineering (BEng), preferably in the fields of electrical engineering, informatics, applied mathematics or electronics.

Tuition and Fees

approximately 750 euros per year

Language requirement

TOEFL score (or equivalent) required



**Deadline for applications
April 15**

Notification of results in April

Application form available on-line <http://cse.ensimag.fr>

Communication Systems Engineering Master



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Grenoble Institute of Technology Politecnico di Torino

Master Communication Systems Engineering



Photo: F. BURNIEC, P. RIGAUD - Communication et Relations Internationales Ensimag - Photos: F. BURNIEC / Christian MOREL / James CROWLEY / Patricia RIGAUD - FEVRIER 2009

Master CSE Academic Program

Two highly reputed
European Universities

Technical skills

A successful career in Communication Systems engineering requires skills in both hardware and software. CSE students master devices, systems and techniques used in digital communication systems, including informatics, networks and signal processing. This large range of competencies provides the necessary skills to interact with top-level specialists in networks and equipments.

Management and soft skill courses allow our graduates to:

- Work in a cross-cultural environment, master one or several foreign languages.
- Manage a project and a team, communicate efficiently.
- Build a business network.

A variety of jobs

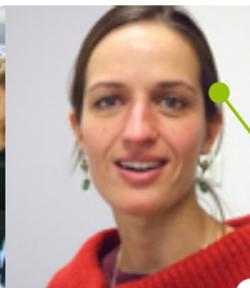
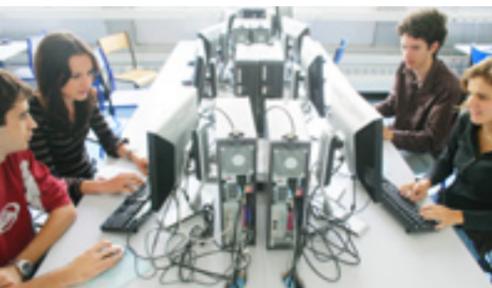
CSE provides a well balanced training program at the intersection of the three main fields of telecommunications: informatics, signal processing and electronics.

Our graduates find jobs as:

- Designer of transmission systems,
- Telecommunications network engineer,
- Supervisor for networks and information systems,
- Telecommunications network architect.

“ This master’s program is highly regarded by recruiters. The program being in two different countries is a real added-value for languages competence. ”

Céline



Zine

“ This Master’s program is really pluri-disciplinary, a well balanced education in informatics, applied mathematics and electronics. The courses are taught by recognized Faculty members who publish research papers frequently and who regularly attend international conferences. ”

1 First year: Politecnico di Torino

Semester 1

Information Theory and Codes
Telecommunication Electronics
Operating Systems
Object-oriented Programming
Radiofrequency Devices
Entrepreneurship

Semester 2

Microwaves
Computer-aided Design of Wireless Communication Systems
Microwaves Laboratory
Statistical Signal Analysis
Traffic Theory
Italian or French

2 Second year: Ensimag, Grenoble INP

Semester 3

Optical Fiber Communication Systems
Architecture of Integrated Radio Systems
Lab Radiofrequency Project
Wireless Networks
Computer Networks
Networks project
Numerical Transmission Systems
Project and Quality management

Semester 4

End of studies project

Parallel Curricula

- Master of Science University of Illinois, Chicago
- Master of Science in Signal, Image, Speech, and Telecommunications
- Master of Science in Optoelectronics and Radiofrequency (additional lectures in French)



The Turin Area and Piedmont

The North-Italian Industry Triangle and the Alpine Diamond

Ideally located between France, Switzerland, Italy, the Alps and the Mediterranean, Turin and its surrounding region, Piedmont, host 7% of the population of Italy and produce 10% of its GNP, accounting for 13,3% of Italy’s export and 27% of Italy’s high-tech export.

Innovation in its 300,000 companies (1600 with more than 50 employees) is boosted by its 4 Universities with more than 100,000 students and its Research Laboratories (Italian National Research Council, corporate Research Laboratories (FIAT, Telecom Italia, etc.)).

Turin

has a population of 900,000 (metropolitan area 1,400,000). It is both rich in museums, art and culture and offers a wide variety of activities, ranging from entertainment to sports. Turin hosted the XX Winter Olympic Games in 2006. Ski resorts and the mediteranian coast are within a 1.5 hour drive.

The Grenoble Area

A major scientific center
in the fields of physics, computer
science and applied mathematics

Excellence in Research

- 21,000 jobs including 11,000 in public research
- 90 research laboratories

Major Research Organizations, including:

- CNRS, National Centre for Scientific Research
- INRIA, National Institute for research in Computer Science and Control
- CEA, Atomic Energy Commission
- ESRF, European Synchrotron Radiation Facility
- ILL, Institut Laue-Langevin

A university city: a superb campus situated 10 minutes away from downtown with convenient public transportation. On-campus accommodation, with a choice of students residence halls, and university restaurants.

An exceptional natural setting, in the heart of the French Alps. The city is surrounded by three mountains ranges, providing easy access to a wide range of mountain activities including skiing, hiking and hang-glider. The area’s many lakes allow the practise of water sports popular in spring and summer.

