ESIEE
PARIS

THE SCHOOL OF TECHNOLOGICAL INNOVATION

TAUGHT IN ENGLISH

INTERNATIONAL PROGRAMMES

- **Master of Computer Science**
- **Master of Electronics**
  - Wireless communications
  - Micro and Nano Technologies
- **M.Sc. Management of Technology – Information Systems**

affiliated to
CCI PARIS ILE-DE-FRANCE

UNIVERSITÉ PARIS-EST

INTERNATIONAL MASTER OF COMPUTER SCIENCE

DEGREE AWARDED:
Master's degree
Diplôme d'ingénieur ESIEE Paris
Accredited by French ministry of higher education and research &
Commission des titres d'ingénieur.

AIM: This two-year programme aims to make the students expert in the fields of image processing and embedded systems. Graduates are able to design advanced autonomous systems, in which both elements are indispensable. Entrepreneurship and innovation issues, as well as French culture and language are also considered. After graduating, students may begin an engineering career, or undertake a PhD.

COURSE CONTENT

COMPULSORY COURSES:
- Algorithms
- Image processing
- Estimation and control
- Scheduling, real time constraints
- Computer vision
- Computer graphics
- Distributed control algorithms
- Distributed real time systems, with a special emphasis on software issues and networking

ELECTIVE COURSES:
Students desiring a stronger specialisation in either Computer Science or Embedded Systems, and fluent in French, are also allowed to choose units amongst those offered as options in the programmes of the relevant major.

CAREER OPPORTUNITIES

JOB OPPORTUNITIES:
- Industrial vision (industrial control, quality control)
- Virtual reality for engineering, architecture, urbanism
- Games and multimedia
- Medical imaging (magnetic resonance, echography)
- Geographic information systems, satellite images
- Automotive and aeronautic industry
- Automation and control
- Telecommunications
- Banks, services, etc...

Thanks to the management training included in the programme, graduates are able to develop their careers towards various management positions such as product manager, project leader, or technical director.

COMPANIES:
- Thalès
- Dassault Systems
- GE Healthcare
- Sagem
- Prylos
- Safran
- Renault

More information www.esiee.fr/en/inter_programs/master_computer_science.php

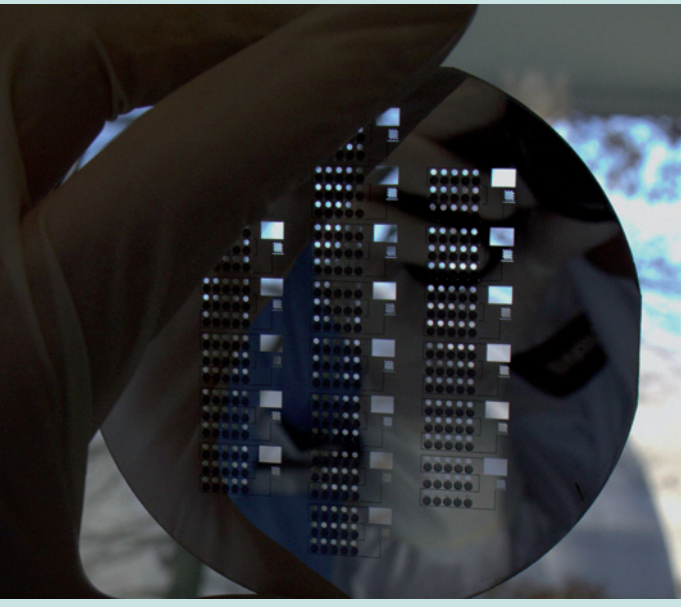
INTERNATIONAL MASTER OF ELECTRONICS

WIRELESS COMMUNICATIONS & MICRO AND NANO TECHNOLOGIES

DEGREE AWARDED:
Master's degree
Diplôme d'ingénieur ESIEE Paris
Accredited by French ministry of higher education and research & *Commission des titres d'ingénieur*.

AIM: The programme aims to train engineers and young scientists in an international environment with a high technical added value in the exciting fields of electronic technologies, providing a large diversity of selected topics from communication systems to micro and nano technologies that are today and tomorrow key enabling technologies. Entrepreneurship and innovation are also key topics, together with Intercultural management, French culture and language. After graduating, students may undertake an international engineering career or a PhD.

STATE-OF-THE-ART EQUIPMENT: 300m² Clean Room; RF, Microwave & Photonics Platform; MEMS Platform.



OPTIONS

WIRELESS COMMUNICATIONS:
- Communication systems
- RF and microwaves
- Microelectronics
- Integrated circuits
- Photonics

MICRO-NANO-TECHNOLOGIES:
- Sensors
- Energy harvesting
- Biomedical engineering
- MEMS and NEMS
- Microfluidics
- Nanomaterials

COURSE CONTENT

COMPULSORY COURSES:
- Advanced microfabrication technologies for ICs and MEMS
- Optoelectronics and photonics, Propagation technologies
- Material sciences, Electron devices, Advanced Electron Devices

ELECTIVE COURSES:
- Analog Electronics, Digital circuits, FPGA, Discrete time electronics, acquisition chain, integrated circuits
- Energy harvesting, Bio-MEMS, nanomaterials, lab on MEMS
- RF and microwave circuits, Antennas, Radio-Front-End
- MEMS and IC fabrication, MEMS design, test and measurements
- Communication systems, Signals, programming, Sensor networks

CAREER OPPORTUNITIES

JOB OPPORTUNITIES:
- Mobile communications and telecommunications
- Automotive technologies and aerospace
- Intelligent transport systems
- Radio frequency components and system design
- Sensors for health, environment, automation, industry
- Biological and bio-chemical interfaces
- Health care and human body monitoring
- Communicant sensors networks

Thanks to the management training included in the programme, graduates are able to develop their careers towards various management positions such as product manager, project leader, or technical director.

COMPANIES:
- THALÈS
- ST – Microelectronics
- Schlumberger
- ORANGE
- EADS
- Safran
- Alcatel

More information www.esiee.fr/en/inter_programs/master_electronics.php

M.Sc. MoTIS

MANAGEMENT OF TECHNOLOGY INFORMATION SYSTEMS

DEGREE AWARDED:

M.Sc. accredited by the prestigious *Conférence des Grandes Ecoles*, which is an association of the highest-level French Business and Engineering Schools. This accreditation is the result of a rigorous evaluation based on quantitative and qualitative criteria which take into account: the quality of the education and research, the international focus of the establishment and the employability of its graduates.

AIM: This programme equips its graduates with the necessary skills, competences and vision to manage advances in technology in the form of ideas, goods and services. Students will develop their technical knowledge along with expertise in strategic issues and project management in order to manage Information systems in diverse contexts. This diversity is further enhanced by the multi-cultural teamwork and projects carried out throughout the course by our students who come from all five major continents.

M.Sc. MoTIS is a member of the SAP University Alliance

COURSE CONTENT

In keeping with its focus on the international dimension, the M.Sc. MoTIS is taught entirely in English. It is divided into 2 semesters of course & project work, followed by a 6-month internship in an enterprise or organisation in France or abroad. This internship will be concluded by the presentation of a Master's thesis.

THE PROGRAMME'S 4 MAIN ELEMENTS AND THEIR MODULES ARE THE FOLLOWING:

Technology-centred subjects
> State-of-the-art in IT
> Information Technology Security
> Information Systems Design and Management
> Emerging Technologies

Technology-related management functions
> Project Management
> Strategic Management
> Business Intelligence
> Innovation Management

Corporate functions
> Organizational Behaviour
> Change Management
> International Marketing
> Corporate Finance

The "French Touch"
> French as a foreign language
> French business culture

CAREER OPPORTUNITIES

JOB OPPORTUNITIES:

- SAP HR systems consultant
- Change Management Consultant
- IT demand analyst
- SAP consultant
- IT project manager
- Business solutions software consultant

COMPANIES:

- EADS
- Cap Gemini
- Accenture
- Logica
- L'Oréal
- BNP Paribas
- United Nations Organisation

More information www.esiee.fr/en/inter_programs/msc_motis.php

BROADEN YOUR HORIZONS, DEEPEN YOUR KNOWLEDGE

THE SCHOOL OF TECHNOLOGICAL INNOVATION

FOUNDED IN 1904, ESIEE PARIS IS A SCHOOL OF HIGHER EDUCATION AND RESEARCH FOCUSED ON ALL ASPECTS OF TECHNOLOGICAL INNOVATION AND A FOUNDER MEMBER OF THE *UNIVERSITÉ PARIS-EST*.

ESIEE PARIS IS A MEMBER OF THE *CONFÉRENCE DES GRANDES ÉCOLES FRANÇAISES*.

ESIEE PARIS OPENS THE DOOR TO A VARIETY OF PROFESSIONAL CAREERS IN THE FIELDS OF COMPUTER SCIENCE, ELECTRONICS, TELECOMMUNICATIONS AND EMBEDDED SYSTEMS AND WORKS AT THE INTERFACE OF MANAGEMENT AND TECHNOLOGY.

How to apply?

www.esiee-paris.fr/en

CONTACT : intmaster@esiee.fr

KEY FIGURES
- 1,500 students
- 100 academics
- 200 to 250 Master's Degrees awarded each year
- 70 PhD students

RANKING IN THE PRESS

QS ranks Paris the best student city in the world. ESIEE Paris ranked in 6th position among French 5-year engineering schools by *L'Étudiant* and in 5th position by *SMBG*.

RESEARCH FIELDS
- Computer Sciences and Imagery
- Real Time and Embedded Systems
- Microsystems, Micro and Nano Technologies
- Electronics and Communication Systems
- Innovation and Change Management
- Signal Processing
- Microwave-Photonics

PLACEMENT (2013)

91% of graduates found jobs within 6 months of graduation (61% before graduation).

2 YEAR PROGRAMME TAUGHT IN FRENCH

OTHER MASTER PROGRAMMES

COMPUTER SCIENCE
TELECOMMUNICATIONS
INFORMATION SYSTEMS
EMBEDDED SYSTEMS
ELECTRONIC SYSTEMS
INDUSTRIAL ENGINEERING
BIOTECHNOLOGY
RENEWABLE ENERGIES

THE ENVIRONMENT

ACCOMMODATION
ESIEE Paris can provide you with a room/flat in one of the halls of residence located near the school (5 min on foot) with prices starting from 450 €/month. Possibility to obtain student housing allowance worth 150 € to 200 €.

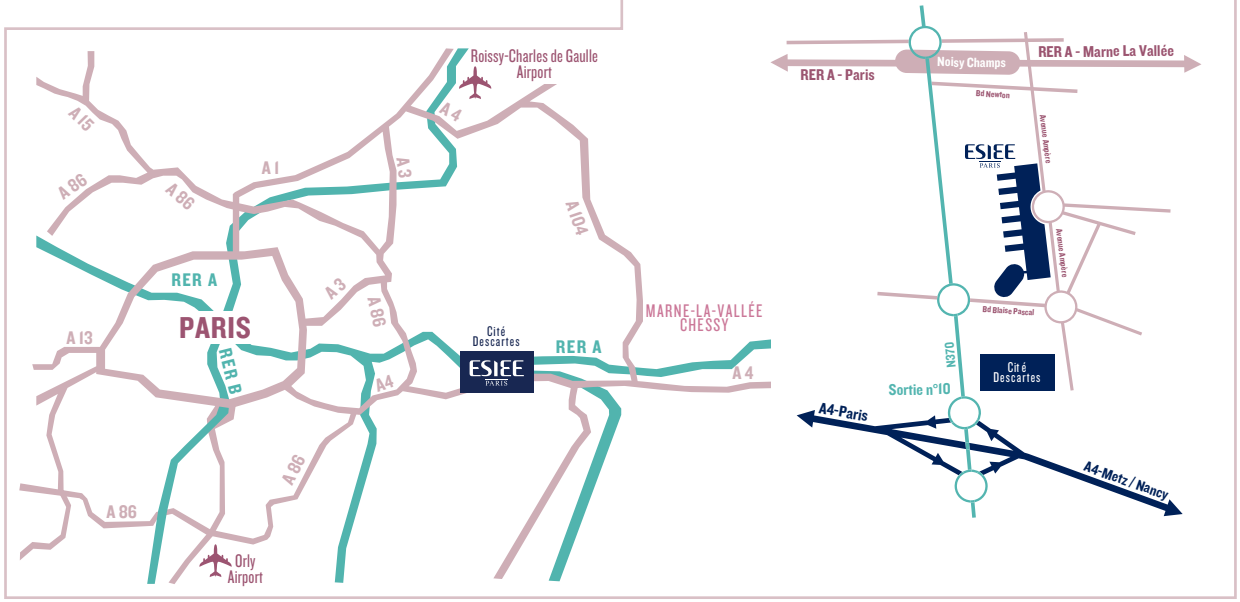
SPORTS FACILITIES
Modern facilities are available, including a gymnasium. A wide range of indoor and outdoor activities is on offer, led by qualified staff.

STUDENT ACTIVITIES
Numerous activities are organised and managed by the students' union: clubs, travel, events, etc.

PARIS A CENTRAL PLACE IN EUROPE
Paris is a few hours by train from London, Brussels, Amsterdam, Geneva and by plane from Madrid, Berlin, Rome.

CAMPUS
ESIEE Paris is situated in the eastern part of Greater Paris. It is only 25 minutes from the center of Paris and 35 minutes from La Défense business area, on the "A" suburban train line. Its futuristic building is located in the heart of the Cité Descartes campus, a stimulating study environment.

GETTING TO ESIEE PARIS



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