

GRADUATE PROGRAMME

INTAKE: **September**
CAMPUS: **Paris**
LANGUAGE: **English / French**



Design, compliance and governance in cybersecurity

Established
in Paris in

1919

4,000
students

+160
international
academic partners

350
teachers
and professional
lecturers

15,000
graduates

+800
corporate partners
and public
organizations

+40
students
associations

Established in 1919, ECE Engineering School in Paris excels in tech and digital education. Specializing in software development, network architecture, cybersecurity, data and AI, our educators use project-based pedagogy to enhance learning. As part of the OMNES Education Group, a top private institution in France, ECE leads in innovation and academic excellence.

In a constantly evolving digital world, cybersecurity has become a crucial issue for businesses and organizations of all sizes. Cyberattacks are becoming increasingly frequent and sophisticated. Therefore, we need highly skilled professionals to protect computer systems and sensitive data.

This programme furnishes students with indispensable proficiencies essential for maneuvering through the multifaceted realm of cybersecurity. Encompassing critical areas such as risk assessment, threat identification, incident response and strategic resource management, it equips graduates with the requisite skills to confront and surmount the varied challenges encountered in the professional sphere.

Additionally, the curriculum places a paramount emphasis on ethical standards and adherence to legal protocols. By instilling a strong ethical foundation, students are primed to take the helm in cybersecurity initiatives with integrity and compliance.

CAREER OPPORTUNITIES

Upon completion of this programme, students will be professionals capable of meeting the needs of businesses, organizations and the public sector. They will be prepared for future careers as cybersecurity consultant, project security manager, security solutions integrator, SOC analyst operator or security incident response analyst.

WHY CHOOSE THIS PROGRAMME

> This master's program covers fundamental topics such as database management, network and operating system security, secure IT infrastructures,

DevOps, cryptography, identity management and incident response. Additionally, it includes discussions on cybersecurity standards, norms and methodologies.

- > Through conferences, site visits and projects, students meet with cybersecurity professionals, thus building their networks.
- > Courses are held on ECE's campus, centrally situated in Paris, near iconic landmarks such as the Eiffel Tower and the Seine River.
- > Students are offered a fully immersive experience in the world of cybersecurity.
- > Students build on the theoretical knowledge they have gained through the academic year and discuss their analyses and recommendations with senior managers in cybersecurity.
- > Upon culmination of the programme, students may be conferred with a Bac+5 level diploma adorned with the prestigious MSc – Master of Science label accredited by the Conference of Grandes Écoles.
- > Students can obtain the international Certification of Trust (CC) by ANSSI.

THE OBJECTIVES OF THE PROGRAMME

Our graduates will be able to:

- > Understand the stakes and challenges of cybersecurity.
- > Identify and analyze cyber threats.
- > Design and implement effective security solutions.
- > Anticipate and manage security incidents.
- > Comply with security regulations and standards.

ANSSI CERTIFICATION



ECE has earned the SecNumEdu label from ANSSI, France's national authority for cybersecurity. This certification programme, established by the French government, is designed to enhance the cybersecurity resilience of educational institutions. Through SecNumEdu, institutions receive guidelines and support to bolster their cybersecurity measures. This achievement reflects ECE's dedication to maintaining robust cybersecurity standards within its educational environment.



Programme structure

ENROLL OUR PROGRAMME



Applications
from French
or international
students residing
in France



Applications
from international
students residing
outside France

The international
admission procedure
only applies to you
if you are not a French
national and live
outside France.

CERTIFICATION



YEAR 1

Semester 1 – 30 credits

Advanced Databases
DevOps with SRE
Computer Networks
Operating Systems
Windows Server
Web Technologies
Initial Python
Master Class, Team Management, Budget Management, Sustainable Development
French courses FLE
Multidisciplinary Team Project

Semester 2 – 30 credits

Machine Learning
Information Systems Management
Pentest
Container Security
Computer Network Security
Software Security
Information Systems Security I
Individual Relationship Management, Social Dialogue, Corporate Management, Marketing in a Digital World, Manager Ethics
French courses FLE
Multidisciplinary Team Project

4-month internship (optional)

YEAR 2

Semester 3 – 30 credits

Cryptography
Identity and Access Management
Hybrid Identity Security, Cybersecurity Policies, Standards and Methodologies
Cybersecurity Risk Management
Policy Incident Response, Forensics and Reverse Engineering
Windows Security
Advanced Network Security
Unix/Linux Security
Information System Security
Cybersecurity
Change Management, Workplace Health, Fundamentals of supply chain management, Safety and Security, Job Interview Simulation
French courses FLE
Research Writing, Final Project

Dissertation – 20 credits

6-month internship – 10 credits



**A Corporate Social Responsibility
Policy to embody the commitments
of OMNES Education**

The societal challenges of the contemporary world require new skills, new responsibilities and new professions, which OMNES Education aims to provide to its student audience. With a resolutely humanistic and universalist approach, OMNES Education seeks to unlock the abilities and aspirations of each individual through an innovative and multidisciplinary study programme.

ENTRY REQUIREMENTS

- > A first-class undergraduate degree with honors in mathematics (covering calculus, linear algebra and statistics), computer science (covering programming, data structures and algorithms), as well as networks and operating systems.
- > English proficiency: the minimum score required is the upper intermediate B2 level, 4th level of English in the Common European Framework of Reference (CEFR).

TUITION FEES

- French or international students residing in France**
- > 10,700 €/academic year.
- > An application fee is payable at the time of the application submission: 90 €.
- International students residing outside France**
- > 11,190 €/academic year.
- > An application fee is payable at the time of the application submission: 50 €.