



DIGITAL TECHNOLOGY

Master of Science (MSc)

Track AEIOT Architecture and Engineering for the Internet of Things

The Internet of Things coupled with 5G and satellite networks connecting billions of devices will be an enabler of the connected society. This Master's degree prepares students with cutting-edge skills in the entire communication system: designing power-efficient communications, making devices work together seamlessly, keeping data secure across the network, and processing huge amounts of data generated by IoT devices. Master Students become the future experts who can design and build networks for a wide range of applications.

ACADEMIC DETAILS

2-year full time program

- > February intake – 4 semesters

Comprehensive curriculum

- > Multi-dimension projects
- > Professional & personalised projects
- > Workshops
- > French language & culture
- > Master thesis / internship (last semester)

Internationally recognized degree

- > MSc in Information Technology (IT) accredited by the Ministry of Higher Education and Research No. 20171079 – 1702068Z

Associated tracks / programs

- > CSNE – Communication System and Network Engineering
- > CYSEC - Cybersecurity
- > DS – Data Science

M1 - YEAR 1 - Rennes campus

- > Basic networks communication
- > Mathematical tools
- > Probability / statistics & signal processing
- > Computer science fundamentals
- > Introduction to data science
- > Digital manufacturing
- > Operating system
- > IoT protocols and web of things
- > New economic models & digital laws
- > Mobile networks 4G-5G
- > Wireless and industrial networks
- > Embedded system and machine learning

M2 - YEAR 2 - Rennes campus

- > Cybersecurity in IoT environments
- > Radio access network (LPWAN and 5G)
- > Smart cities and transports
- > Smart grid
- > Embedded OS
- > Beyond 5G

Courses are subject to change without notice

100% taught in English

6-month paid internship in a company or lab

PhD opportunities



IMT Atlantique
Bretagne-Pays de la Loire
École Mines-Télécom



#IoT #DataScience
#ComputerNetworking
#NetworkVirtualization
#WirelessNetworks
#MobileNetworks
#NetworkPlanning #5G



Prof. Laurent Toutain

Head of the MSc in Information Technology,
Expert in IoT

« WE'RE PREPARING LEADERS FOR THE DIGITAL FUTURE »

“We're not just teaching technology; we're preparing leaders for the digital future. Our graduates find exciting opportunities in industry, services, and research. By mastering this rapidly evolving field, our students are ready to tackle tomorrow's technological challenges and drive innovation across diverse sectors, from fintech to Industry 4.0.”

CAREER OPPORTUNITIES

Network solution designer,
Network architect, Network project leader, R & D engineer, Consulting expert, Researcher and academic.
Possibility to continue in PhD.

RESEARCH EXPOSURE

IMT Atlantique is actively involved in standardization with global organizations such as IETF, ISO, ETSI. With over 40 papers each year in international conferences, the research department in Network Systems, Cyber Security and Digital Law (SRCD) actively participates in the evolution of the digital society. Research internships are possible within the department.

TUITION FEES AND SCHOLARSHIPS

5,100 Euros / year
Scholarships opportunities for:
Excellent profiles, Alumni from our partner universities, European citizens, etc.



> “Bienvenue en France” label guarantees the quality of the experience for international students.

IMT ATLANTIQUE

is one of the top 5 institutions in engineering in France. As a leading Technological University, its education, research and innovation activities are recognized internationally :
Top 500 in the THE World University Ranking,
Top 100 in QS ranking for computer science, etc.

- > On-campus accommodation, restaurants, sports facilities
- > Orientation Days & French Summer School
- > A variety of student clubs

Find out more:
www.imt-atlantique.fr/it

Contact us:
it-apply@imt-atlantique.fr

Apply:
<https://www.imt-atlantique.fr/apply>



Design and production : IMT Atlantique Communication Department - July 2024 - Do not litter

