



# DIGITAL TECHNOLOGY

Master's degree (MSc)

## Track AEIOT Architecture and Engineering for the Internet of Things

With IoT, 5G, and satellite networks connecting billions of devices, the connected society is becoming a reality. This Master's program equips students with advanced skills in the entire communication system: designing energy-efficient communication systems, ensuring seamless device integration, securing data, and processing massive IoT-generated data. Graduates become experts capable of building networks for diverse and next-generation applications.

### ACADEMIC DETAILS

#### 2-year full time program

- > September intake
- > Three semesters of courses and projects
- > Master's thesis in final semester

#### Comprehensive curriculum

- > In-depth courses & methodology
- > Professional and research projects
- > French language & culture
- > Professional coaching
- > Internship



#### Internationally recognized degree

- > Master's in Information Technology accredited by the Ministry of Higher Education and Research. No. 20171079

#### Associated tracks / programs

- > CYSEC – Cybersecurity
- > DS – Data Science
- > EMB-AI – Embedded AI

### M1 - YEAR 1 - Rennes campus

- > Probability, statistics
- > Introduction to data science
- > IoT project in FabLab
- > Principles of standardization
- > Introduction to Cloud computing
- > Communication networks fundamentals
- > Mobile networks 4G-5G
- > Industry verticals (Transportation, Cities and Energy)

### M2 - YEAR 2 - Rennes campus

- > New economic models & digital laws
- > Cybersecurity in IoT environments
- > IoT protocols and web of things
- > Embedded system & machine learning
- > Wireless and industrial networks
- > Satellite networks
- > Toward 6G

Courses are subject to change without notice

**Fully delivered in English**

**6-month paid internship in a company or lab**

**PhD Opportunities**



## "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."*

**Prof. Laurent Toutain**

Head of the MSc in Information Technology,  
Expert in IoT

## 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

6,500 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 ranked among the top 3 engineering institutions  
in France. As a leading Technological University, it is  
internationally recognized for its excellence in education,  
research, and innovation : Top 400 in the THE World University  
Ranking, Top 100 in QS ranking for Data Science and AI

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

Find out more:

[www.imt-atlantique.fr/it](http://www.imt-atlantique.fr/it)

Contact us:

[it-apply@imt-atlantique.fr](mailto:it-apply@imt-atlantique.fr)

Apply:

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

