



This MSc program is aimed at future experts for the design and/or administration of high-performance telecommunication networks. It includes a wide range of knowledge such as wireless, wired and optical transmission systems, digital communications, network architectures and project management of complex systems. Certain aspects of computer science and data science are involved as well.

### 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, Research and Innovation No. 20171079 – 1702068Z

#### Associated tracks / programs

- > AEIOT – Architecture & Engineering for the Internet of Things
- > DS – Data Science

*Courses are subject to change without notice*

### M1 - YEAR 1 - Rennes then Brest campus

- > Communication networks basics
- > Mathematical tools
- > Probability, statistics & digital signal processing
- > Computer science fundamentals
- > Introduction to data science
- > Physical communication channels
- > Digital communications
- > Architecture & eng. of transmission systems
- > Error correction codes or Radio frequency technologies and devices
- > Optical technologies or Advanced digital communication

### M2 - YEAR 2 - Brest campus

- > Networks principles through practice
- > Mobile networks or Coding and compression
- > Optical networks or Physical layout security
- > Sensors & energy
- > Introduction to AI
- > Electronics integration

**Bridging semester in English**

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

**Free application !**



**IMT Atlantique**

Bretagne-Pays de la Loire  
École Mines-Télécom



#Networking #Internet  
#MobileSystems #DataScience  
#WirelessSystems  
#OpticalCommunications  
#DigitalCommunications  
#ComputerScience

## INTERNATIONAL EXPERIENCE

### Alumni Testimony

Cesar (Peru)

*"High-quality teaching by excellent professors and highly regarded researchers. [...] The program also allowed me to be in contact with the industry thanks to the projects and a 6-month internship."*



Read the complete testimony

[urlz.fr/fVzv](http://urlz.fr/fVzv)



## CAREER OPPORTUNITIES

Telecommunication project leader, Communication system designer, Network architect, R & D engineer, Sales engineer, Consulting expert, Researcher and academic, etc. Possibility to continue in PhD.

## RESEARCH EXPOSURE

The MSc is carried out by IMT Atlantique teaching and research departments. It involves more specifically the following departments: Microwaves, Signal and communications, Optics, Electronics, and Network Systems, Cyber Security and Digital Law.

## TUITION FEES AND SCHOLARSHIPS

5,100 Euros / year

Scholarships opportunities for: Excellent profiles, Alumni from our partner universities, European citizens, etc.



> CampusFrance "Bienvenue en France" guarantees the quality of the experience for international students.

## IMT ATLANTIQUE

IMT Atlantique is a "Grande Ecole" ranked among the best French Graduate Engineering Schools, and recognized internationally as a leading Technological University (Shanghai, QS and THE rankings). It is a member of IMT, the largest group of public Engineering and Management Graduate Schools in France.

- > 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:  
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