



## Architecture and Engineering for the Internet of Things

With billions of connected devices providing a better understanding of our environment, IoT is the new revolution of today's internet. This Master offers a deep understanding of the whole communication ecosystem: low power communications, interoperability, security and massive data processing. It is aimed at future experts for the design and engineering of networks, with a wide field of applications and a focus on the IoT.

### 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

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

### M1 - YEAR 1 - Rennes campus

- > Mathematical tools
- > Probability, statistics & digital signal processing
- > Computer science fundamentals
- > Introduction to data science
- > Communication networks fundamentals
- > Virtualization technologies
- > IoT protocols and web of things
- > New economic models & digital laws
- > Mobile networks 4G-5G
- > Wireless and industrial networks

### M2 - YEAR 2 - Rennes campus

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

*Courses are subject to change without notice*

**100% taught in English**

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

**Free application !**



**IMT Atlantique**

Bretagne-Pays de la Loire  
École Mines-Télécom



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

## INTERNATIONAL EXPERIENCE

### Alumni Testimony

Ivan-Clare (Cameroon)

*“Several opportunities were provided throughout the year to work as a team, applying the skills we learnt practically on fun projects, research and company projects”*



## CAREER OPPORTUNITIES

Network solution designer, Network architect, Network project leader, R & D engineer, Consulting expert, Researcher and academic, etc. 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.

Read the complete testimony

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



> 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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[www.imt-atlantique.fr/student-faq](http://www.imt-atlantique.fr/student-faq)

