POLYTECH© GRENOBLE

Computer Networks and Multimedia Communication

Graduates in Computer Networks and Multimedia Communication possess broad knowledge of information and communication technology rounded out by in-depth mastery of a specialty field such as mobile computing, ambient computing, the Internet of Things, and cloud computing.

Our graduates possess solid general engineering skills

- A capacity to use resources from a broad range of basic sciences
- Knowledge and understanding of a specialty scientific and technical field
- Mastery of engineering tools and methods
- An ability to work within an organization, manage a team, and implement change
- Understanding of broader industrial, financial, and professional issues
- A capacity to work in international settings
- Respect for societal values

Recent graduates have secured positions like:
R&D engineer
Design/calculation engineer
Technical manager
Systems/network engineer
Application manager
Development engineer
Consultant

Graduates have mastered specific competencies that prepare them to handle real-world professional situations:

Competency	Situation
Managing and overseeing software projects	• Drawing up specifications • Overseeing a software project • Setting up support resources • Setting up a collaborative workspace • Managing a team of developers
Designing, developing, and integrating software bricks	• Determining the target architecture and components • Upgrading and modifying existing systems • Moving an application from one platform to another • Integrating existing systems
Automating information processing	• Designing applications • Integrating applications into systems • Designing and developing systems
Administering IT infrastructure	• Implementing an infrastructure • Preparing RFQ submissions • Upgrading a network • Designing distributed solutions
Creating smart systems (interactive and complex data processing systems)	• Creating a human-machine interface from user needs • Implementing a content management system • Developing or improving multimedia processing modules • Analyzing and extracting information from the internet in a structured manner
Practicing continuous innovation	• Detecting emerging needs (new markets) • Growing a business (business plan) • Establishing a consulting business • Conducting audits and providing training

In-company placements
Third year: optional placement
Fourth year: 12 weeks
Fifth year: 22 weeks
Graduation project: for external customers (companies or research labs)

A selection of companies that have hired graduates in Computer Networks and Multimedia Communication:
ATOS, BULL, CAPGEMINI, EDIFIXIO, ORANGE BUSINESS SERVICES, SOPRA, THALES, VISEO

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