



**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.

Recent graduates have secured positions like:

- R&D engineer
- Design/calculation engineer
- Technical manager
- Systems/network engineer
- Application manager
- Development engineer
- Consultant

**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



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

Competency	Situation
Managing and overseeing software projects	<ul style="list-style-type: none"> <li style="width: 50%;">• Drawing up specifications</li> <li style="width: 50%;">• Overseeing a software project</li> <li style="width: 50%;">• Setting up support resources</li> <li style="width: 50%;">• Setting up a collaborative workspace</li> <li style="width: 50%;">• Managing a team of developers</li> </ul>
Designing, developing, and integrating software bricks	<ul style="list-style-type: none"> <li>• Determining the target architecture and components</li> <li>• Upgrading and modifying existing systems</li> <li>• Moving an application from one platform to another</li> <li>• Integrating existing systems</li> </ul>
Automating information processing	<ul style="list-style-type: none"> <li style="width: 50%;">• Designing applications</li> <li style="width: 50%;">• Integrating applications into systems</li> <li style="width: 50%;">• Designing and developing systems</li> </ul>
Administering IT infrastructure	<ul style="list-style-type: none"> <li style="width: 50%;">• Implementing an infrastructure</li> <li style="width: 50%;">• Preparing RFQ submissions</li> <li style="width: 50%;">• Upgrading a network</li> <li style="width: 50%;">• Designing distributed solutions</li> </ul>
Creating smart systems (interactive and complex data processing systems)	<ul style="list-style-type: none"> <li>• Creating a human-machine interface from user needs</li> <li>• Implementing a content management system</li> <li>• Developing or improving multimedia processing modules</li> <li>• Analyzing and extracting information from the internet in a structured manner</li> </ul>
Practicing continuous innovation	<ul style="list-style-type: none"> <li>• Detecting emerging needs (new markets)</li> <li>• Growing a business (business plan)</li> <li>• Establishing a consulting business</li> <li>• Conducting audits and providing training</li> </ul>

In-company placements

- Third year: optional placement in July
- Fourth year: 12 weeks from May to August
- Fifth year: 22 weeks from April to September
- 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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