The Master’s program in Communication Systems offers a unique education emphasizing the interplay of mathematics, computer science and electrical engineering. It covers fields like wireless communications, networking and mobility, internet computing, information security or signal processing and includes minors such as space technology.
Olivier Roy: "I had told myself: 'well, one thing I am sure of is that these concepts will never be useful'. Fifteen years later, I have to admit that I use them on an everyday basis to develop novel medical imaging technologies that will, one day perhaps, save lives."

Patricia Pérez: "The high level of demand of the classes teaches us to surpass ourselves and to go beyond obstacles imposed by some constraints."

GroupStream: to sing from the same song sheet

Party organizers finally have a neutral friend, which helps them in the difficult choice of which music to play. GroupStream is a smartphone app that works as a mediator between organizers, DJ and guests. Once the app is installed, the DJ creates a group and invites other guests to join it. Each participant's playlist is scanned. The tool analyses every song and save the ones that appear more often. Lucas Maystre designed and developed this tool from A to Z for his Master project.


"We bring radioactivity data to the Japanese public"

After the Fukushima reactor fallout, empowering people to take their own readings was a reaction to the outstanding lack of transparency. The first prototype was ready to go after less than one week of work. We now lend out DIY portable Geiger-counters and then post the data online. The bGeigie takes level readings with geographical coordinates and records the information on a standard SD card. Then users upload this information to our website and we make this data available for all," explains Robin Scheibler who launched the whole initiative named Safecast.

Master of Science in COMMUNICATION SYSTEMS

2-year program - 120ECTS

Core courses and options 72 ECTS

Master’s thesis 30 ECTS

Project in social and human sciences 6 ECTS

Research project 12 ECTS

The program includes a compulsory internship of eight weeks during the summer, or six months during the semester. The internship can also be combined with the master’s thesis.

Students may choose a 30 ECTS specialization in:

- A Computer engineering
- B Data analytics
- C Foundations of software
- D Cyber security
- E Networking and mobility
- F Signals, images and interfaces
- G Software systems
- H Wireless communications
- I Computer science theory
- J Internet information systems

They may also opt for a Teaching specialization (30 ECTS at the Haute école pédagogique du canton de Vaud).

Or choose a 30 ECTS minor included in the 120 ECTS.

Career prospects

The internship portal, with more than 3000 active contacts, is a very effective way to promote internships and master projects. All the big companies like Sony International, NEC Labs and AIP Riken are listed, but not only. There are many SMEs and start-ups too. The EPFL Innovation Park, a few steps away from the campus, hosts many R&D laboratories such as Logitech, or Swisscom. These companies hire a large number of Communication Systems students for internships or master’s projects and also collaborate with researchers from the IC School.

The EPFL Innovation Park is the springboard for numerous start-ups, most of which have emerged from the IC School.

It only takes on average 7 weeks to find one’s first job. Moreover, many Communication Systems graduates receive a job offer during the last semester of their training. Companies such as Oracle, Google, Meta, or Microsoft recruit directly on campus by participating in various events.

School of Computer and Communication Sciences
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