DEVELOPPEMENT INFORMATIQUE ET EXPLOITATION OPERATIONNELLE (DO) PROGRAM AT POLYTECH MONTPELLIER

Development and Operations (DO) is a 3-year program leading to the engineering degree through apprenticeship, equipping students with skills in software and system development, networks and cloud platforms. These devops engineers are capable of managing the entire lifecycle of applications from design to development, testing, integration, deployment, scaling, securing, monitoring and evolving phases, both on premises and in cloud environments.

Students have the apprenticeship status, meaning they sign a contract with a company in which they spend half of their time during the three years of the DO program, alternating periods of two weeks in the company and two weeks at school. This is a guarantee that they are in phase with the needs of the industry, being incorporated in a team and handling real-life missions in the context of short-term and long-term projects. Moreover, they also have a 9-weeks international experience during the summer of the second of third year of the program (the Polytech school maintains partnerships with over 100 universities and many companies abroad).

At the Polytech school, the DO program benefits from a high-quality learning environment:
server blades are administered by students in a dedicated room;
classrooms are equipped with external monitors, docking stations, and multimedia equipment;
each student has a personal laptop;
the infrastructure (private network, VMs, private cloud, version control system, etc.) being maintained by a dedicated engineer.

Most course modules are organized around projects, enabling students to work in teams using a variety of methodologies. Some projects are supervised by industry professionals, with a 3-year-long project, which spans several semesters, allowing students to progressively develop their skills.

Some modules are offered as hybrid courses (videos and online labs), enabling students to learn at their own pace and build autonomy, while also fostering mutual support through peer learning, with dedicated time slots in their schedules.

We bring students to relevant local and nationwide conferences (Marseille, Paris, etc.) as well as to an international event (Kubecon Europe) to help them build their professional networks and learn about cuWng-edge technologies. We also encourage participation in hackathons to provide competitive learning experiences. We also help them prepare the CKA certification.

The DO training program receives strong support from local companies, national digital service companies, and several international firms (including RedHat, Google, IBM, ...). This support includes training by industry professionals (half of our courses are taught by professionals from the digital sector), work-study opportunities, project proposals, supervision, and participation in events we organize (Polycloud that brings around 100 people each year).

Polytech Montpellier ranks in the top quarter of engineering schools (national ranking from the label "l'Étudiant 2024"), tying for first place in Group A (among A+, A, B, C) with the highest marks for social inclusion (number of scholarships, work-study programs, gender parity) and environmental initiatives (ecological transition).