



SE



The Embedded Systems (SE) specialization is a Master's-level program that trains engineers via apprenticeships to manage industrial projects in the electronics and industrial informatics sectors for embedded systems.

KEYWORDS

AUTOMATICS
ANALOG ELECTRONICS
COMPUTER SCIENCE
INDUSTRIAL INFORMATICS
EMBEDDED SYSTEMS
DIGITAL SYSTEMS
SIGNAL PROCESSING

ALL POLYTECH PROGRAMS LEVERAGE A SOLID PARTNERSHIP NETWORK WITH:

- The industrial world (800 internships, 200 industry projects and 50 apprenticeship contracts per year)
- Academic research (14 associated research laboratories)
- International partners (over 100 partner universities around the world)

TRAINING VIA APPRENTICESHIP

- Work-study alternation: 50% in school and 50% in company, alternating every two weeks on average for the three years.

 TARGET PROFESSIONS

When SE engineering students graduate:

- they have acquired a solid scientific foundation in the fields of physics, electronics, automatics, and industrial informatics.
- they possess strong knowledge of the technologies specific to today's embedded systems, both in terms of hardware and software, and they master the related computer-aided design (CAD) tools.
- they are able to handle technical, human, and economic aspects of projects and activities in the fields of embedded systems.
- they are aware of sustainability, recycling, and eco-design issues.

Graduates are qualified for many jobs:

- R&D Engineer
- Study and Consulting Engineer
- Methods and Industrialization Engineer
- Operation and Maintenance Engineer
- Quality Engineer
- Technical-sales Engineer
- Business Engineer
- Project Manager
- Information Systems Administrator

 TARGET ACTIVITY SECTORS

- Engineering firms and consultancies
- Semiconductor industry
- Telecommunications and multimedia sectors
- Health sector
- Transport industry



POLYTECH
MONTPELLIER

MAIN PROGRAM TOPICS

- mathematics
- physics
- analog and digital electronics
- automatics
- computer science / industrial informatics
- signal processing
- human and social sciences
- modern languages

A complete list of courses offered at POLYTECH, and total hours, is available on www.polytech-montpellier.fr in the Training/Embedded Systems section.

PROFESSIONAL PROGRAMS

Enterprise training (work-study) is supervised by an industry advisor, the apprenticeship director, and monitored by an educational director, the professor. The program is organized into five professional modules:

- enterprise knowledge (MP1)
- technical environment (MP2)
- technology application (MP3)
- project management (MP4)
- end-of-year industry project (MP5)

CALENDAR

- Program duration: 3 years
- Program start: late September
- 70 weeks in school + 71 weeks in company + 5 weeks paid vacation per year.
- Work-study alternation:
 - 23 weeks / 24 weeks in 1st year
 - 24 weeks / 23 weeks in 2nd year
 - 23 weeks / 24 weeks in 3rd year

ADMISSION

- Under age 26, upon signature of apprenticeship contract.
- High school + 2 yrs (L2, DUT, BTS, CPGE, PeiP2...) in science and technology.
- Entrance exam via application and interview
- Apprenticeship contract signature.

The apprentice earns compensation between 41% and 78% of the legal minimum wage.

ADVANTAGES OF APPRENTICESHIP

- High-level studies free of charge.
- A true, first professional experience.
- Employee status for three years.
- Fast professional integration after graduation.

SOLID PARTNERSHIP

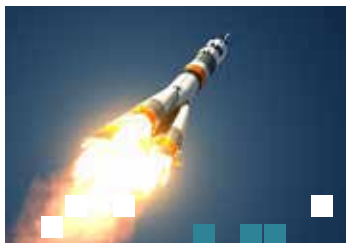
The SE program benefits from strong support from: the Région Languedoc-Roussillon-Midi-Pyrénées, through the Higher Education Regional Center for Apprenticeship Training (CFA EnSup-LR).



Photos: Groupe Archimède - Camille Boulicaut - Shutterstock. Design and illustration: Atelier de signes.

FIND OUT MORE +

More information on www.polytech-montpellier.fr and www.ensuplr.fr



POLYTECH Montpellier – Spécialité SE – CC419 – Bâtiment 31
Place Eugène Bataillon – 34095 Montpellier cedex 5 – France
+33 (0)4 67 14 48 76 / polytech-secretaire-se@umontpellier.fr

CFA régional de l'Enseignement Supérieur – CS 79235
99, avenue d'Occitanie – 34197 Montpellier Cedex 5 – France
+33 (0)4 99 58 52 35 / cfa@ensuplr.fr

