

POLYTECH MARSEILLE

GRADUATE SCHOOL OF ENGINEERING

POLYTECH MARSEILLE



Polytech Marseille is Aix-Marseille University's School of Advanced Studies in Engineering, located in one of the largest higher education and research clusters in France, internationally renowned with its 78,000 students and 120 laboratories.

Public school

Polytech Marseille is a member of the French school of engineering network, Polytech network. It includes 13 university schools of engineering sharing the same selective recruitment methods. With more than 1,500 students and 8 specialties, Polytech Marseille is one of the biggest schools in this network.

University School of Engineering

The school operates in a very high level scientific environment. The teaching/research staff perform state-of-the-art scientific activities within 16 laborato-

ries reporting to national research organizations such as CNRS, INRA, IRD or INSERM. Courses are informed by this environment and students are up-to-date with the latest scientific methods, enabling them to disseminate innovation within companies.

Polytech Marseille has eight departments offering masters level professional degrees covering the largest engineering fields. Each course includes professional projects and internships. Engineering professionals from a broad range of firms bring their practical experience and are key contributors to courses.



The majority of students obtain an employment offer at the end of the mandatory final internship lasting 5 to 6 months. On average, students find their first job within two months of obtaining their degree. In 7 of our specialities, students can attend the 3rd and final year as apprentice. They can also count on a network of more than 7,600 graduates.

Courses very open to international

To obtain their engineering degree, students must spend at least 4 consecutive weeks abroad in a partner university or as intern in a company or in a research laboratory.



Double certification

Student-engineers wishing to give a managerial dimension to their profile can complete their training with a multi-degree course: a master's degree in management with Kedge or a master's degree with IAE Aix-en-Provence.

The partnership between Polytech Marseille and Ecole Nationale d'Architecture de Marseille (Marseille's National School of Architecture) opens the doors to a double certification in Civil Engineering: "Engineering Architect".

Finally, 5th-year students can opt for a research master's degree or a specialized master's degree.

COURSES

PREPARATORY CYCLE POST BACCALAUREATE / 2 YEARS

General selective training allowing access to more than 100 engineering specialties in the 15 other Polytech network's schools or to 7 on 8 specialties of the engineering cycle within Polytech Marseille.

Polytech Marseille's Biological Engineering specialty is the only one which is not available from the integrated preparatory cycle in Marseille. Other Polytech Schools offer preparatory cycles focused on life sciences, allowing access to this specialty (Clermont-Ferrand, Lille, Montpellier, Polytech Paris-UPMC and Tours).

ENGINEERING MASTER'S DEGREE / 3 YEARS

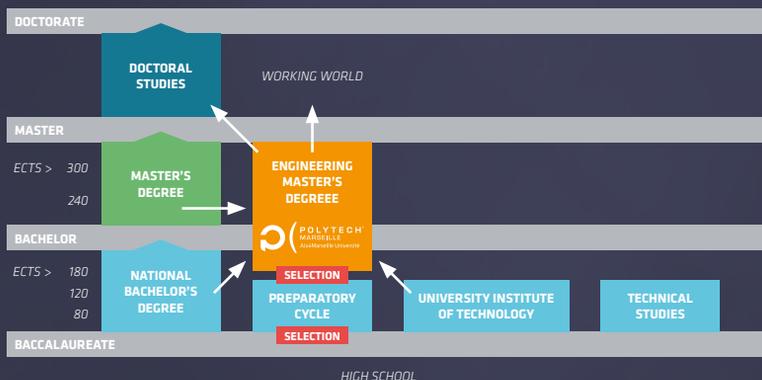
A choice of 8 engineering specialties leading to the final degree of « Diplôme d'Ingénieur », a protected title in France for the engineering master's degree :

- Biomedical Engineering
 - Biological Engineering
 - Information Technology
 - Material Engineering
 - Civil Engineering
- Mechanics and Energy
 - Microelectronics & Telecommunications
 - Industrial Engineering

Polytech Marseille has a selective recruitment process through joint tests and competitive examinations:

- After a scientific baccalaureate to enter integrated preparatory cycle (PeiP – 2 years course);
- After achieving first year in Faculty of Medicine post scientific baccalaureate to enter directly the 2nd year of integrated preparatory cycle (one year scale-up training);
- Or directly in engineering cycle, in one of the specialties, after bachelor's degree first year, bachelor's degree achievement or master's degree first year.

French University Curricula



A HUGE CHOICE OF ENGINEERING SPECIALTIES

> BIOLOGICAL ENGINEERING

Trains scientific and technical highly qualified Engineers in the field of biotechnologies, specialized in the most advanced applications in microbiology, and cellular biology (molecular biology, cell culture, genetic engineering, biochemical engineering or genomics).

Career fields

Healthcare, agri-food, environment and cosmetics.



Access profile

Life sciences, biology.

> BIOMEDICAL ENGINEERING

Trains Engineers specialized in medical devices or institutions and health professionals.

Career fields

Hospital environment (biomedical services in hospital and clinics) and companies producing or commercializing medical devices or equipment for biology.



Access profile

Electronics, physics and computing.



> INDUSTRIAL ENGINEERING

Trains Engineers in Industrial Engineering, specialized in scientific organization and implementation of industrial production of goods and services, mastering automation technics, and information and communication technologies within companies.

Career fields

Most of economic sectors: automotive, aviation and railway construction, transportation equipment, IT services, civil engineering, chemicals and heavy industries, energy, paramedical and pharmaceutical sectors, banking and army.



Access profile

Mathematics, industrial engineering, manufacturing, automation.

> CIVIL ENGINEERING

Trains Engineers called upon to respond to modern building challenges and to building and public works sector needs.

Career fields

Building and public works sector.



Access profile

Mechanics, physics and Civil Engineering.



> INFORMATION TECHNOLOGY

Trains Engineers mastering concepts and technologies in the biggest areas of computing including the most advanced applications, notably in multimedia, mobility, contents engineering, communication and critical systems, business intelligence, IT systems architecture and urbanization, computer graphics, virtual reality and augmented reality.

Career fields

Computing companies, telecom operators, audiovisual and multimedia companies. IT users (industrial and services groups, SME and administrations) also provide many jobs.



Access profile

Mathematics, computing.



> MATERIAL ENGINEERING

Trains Engineers with knowledge and skills in development, characterization and surface and interface expertise, massive materials and thin films for technologies and nanotechnology development.

Career fields

Broad range of industrial sectors: aeronautic and space industries, automotive construction, nuclear energy/oil, plastics processing, chemistry, metallurgy, glass and ceramics.



Access profile

Physics, chemistry, materials.



> MICROELECTRONICS AND TELECOMMUNICATIONS

Trains Engineers able to analyze, create, develop and test all types of electronic systems. The areas of application of these systems cover onboard electronics, connected objects, mobile communications, energy management and intelligent houses.

Career fields

All kinds of companies linked to high-tech fields, large international firms (STMicroelectronics, Airbus, Thalès, Gemalto, Orange SFR, Valeo, etc.) or SME or innovating start-up companies.



Access profile

Physics, electronics, telecom, optics.



> MECHANICS AND ENERGY

Trains Engineers mastering creation and running of processes, modelling and control in the sectors of energy, thermal transfers and fluid mechanics.

Career fields

Skills needed in business management (photovoltaic energy or renewable energies), industries (turnkey installations) or linked with building and public works (responses to Joint Verification Commission – CVC, building renovation, green building). But also study and development of projects linked to components energetic efficiency (building, transportation, energy production).



Access profile

Mechanics, fluid mechanics, thermal, environment.



Polytech Marseille is located in Marseille's two big scientific and technologic clusters: Luminy's Campus and Etoile's Campus, highly frequented by students and enjoying various infrastructures for student life.

Engineering-students are very involved in various associations coordinated by the Student Council called "Bureau des Elèves" (BDE), offering numerous cultural, sport and festive activities. In this way, students can experiment commitment, sense of responsibilities, event organization and solidarity.



Polytech Marseille

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