Our lecturers, who come from the world of research and business, are experts in teaching advanced technologies. In addition, our students benefit from a work placement (or exchange) abroad: at least 12 weeks for students and 8 for apprentices.

**AREAS OF TRAINING**
- Software engineering and software architecture.
- Databases.
- Networks - Systems - Security - Internet of Things.
- Optimisation, scientific calculation.
- Interface and multimedia.
- ‘Big data’, automatic learning.
- Virtual reality.
- High performance computing and parallel programming.

**AREAS OF APPLICATION**
- Management and leadership of IT projects.
- Modelling, design, development and validation of software.
- Development of specialised applications for the Web.
- Advanced interface design.
- Database design and optimisation.
- Implementation of machine learning and data engineering algorithms.

**SCHOOL’S FIGURES FOR INTEGRATION INTO THE WORKPLACE**

**GRADUATES’ OCCUPATIONS**

- 35% Consultant engineer
- 44.16% R&D engineer
- 10.04% Industrial computing engineer
- 10% Management information systems engineer

**AREAS OF ACTIVITY**

- 20% Information technology (service)
- 7.9% Chemical, pharmaceutical, cosmetic industry
- 7.9% Energy
- 6% Construction
- 15% Information technology industry
- 34% Automotive, aeronautical, naval and railway industries
- 9.2% Finance, banking, insurance

**PERCENTAGE EMPLOYED**

Since 2017, over 90% in employment within 6 months of graduating.

*From the 3-year average of the professional integration surveys.*
THE MAIN COURSES

Languages and communication
English, a second foreign language, theory and practice of communication.

Professional project and professional integration

Management of projects, information, people and economic factors
Economics, strategy, marketing, project management, cost management, business games, law, sustainable development, entrepreneurship, business creation, human resources management, innovation management.

Basic sciences
Mathematics, physics for engineers.

Concepts
Algorithms, databases, software engineering, functional and object-oriented programming, graph algorithms, optimisation, machine learning, high performance computing, computer system security.

IT systems and environments
Human-computer interface, database management systems, computer graphics, computer architecture and operating systems, networks, compilation.

Programming
C, Java, C++, web, C#, Python, Matlab, parallel programming.

Projects

THE ENGINEERING CYCLE TIMETABLE AT POLYTECH PARIS-SACLAY

At Polytech

In a company

Apprenticeship in 3 years and continued education in 2 years.

Year 1

Work placement

Year 2

Work placement

Year 3

Our students benefit from an international work placement (or exchange) with our partners (12 weeks for students and 8 for apprentices).

Contacts
info.polytech@universite-paris-saclay.fr
recrut-app.polytech@universite-paris-saclay.fr
recrut-ftlv.polytech@universite-paris-saclay.fr
Bâtiment 620 • Maison de l’ingénieur
Rue Louis de Broglie • 91405 Orsay Cedex
Tel. +33 (0)1 69 33 86 00