

SPECIALISATION OPTIONS OF EPITA

Real-time systems engineering

A real-time systems engineer works with on-board systems (aeronautics, aerospace, formula 1) as well as robotics, home automation and heavy industry. His role: to develop tools enabling the control, command and maintenance of a production process and to develop systems for buying, packaging, processing and transmitting data. The responsibility is his to ensure the automatic correction of a path of a plane, the harmonisation of stages in car manufacture or energy control in a building complex.

Multimedia and Information Technology

Multimedia and Information Technologies are part of our daily life. Multimedia offers its users the simplest, the most user friendly and the most efficient access to information. From television over the Internet to e-learning, including mobile phones, personal assistants and business software applications, multimedia and information technologies are all around us. Students who have chosen the MTI option have an "Innovative and creative" spirit pushing them to rapidly find the best solution to a given problem in a given context. The option focuses on 4 areas:

- ✦ Study and mastery of Information Technologies, Media Study programming languages, and Creativity and Design data exchange formats.
- ✦ Project organisation and management
- ✦ Our challenge, to train « Experts who are also innovative and creative Managers » with both skills and talent!

Cognitive Sciences and advanced Information technology

An algorithm enables us to forecast

all situations and solutions linked to a simple problem, but faced with complex problems (for instance a body in movement) we need to call on cognitive sciences. At the cutting edge of IT solutions implemented in space or military research, top-level finance and nuclear power stations, cognitive sciences open up a vast professional field for engineers who choose this rapidly expanding specialisation.

Systems - Networks and Security

The information system (SI) is today a critical support function for companies' business. Its planning, development and management must be in line with the firm's strategy and respect governance rules.

A system, network and security engineer is the IS architect, responsible for coherency or the craftsman who ensures that the IS constantly seeks to create value. Through project management and auditing the SRS engineer is the driving force behind evolution in the IS and guarantees its conformity, reliability and, finally, its security.

Scientific computing and image processing

High-performance scientific calculation plays a major role in all fields of applied research. The students' training course is orientated towards research through participation in projects of the EPITA Laboratoire de Recherche et Développement (LRDE - Research & Development Laboratory) on themes such as generic programming applied to image processing or automations. This option offers numerous possibilities for a career plan where the aim is to work in a research department of an innovating firm or to continue studying for a PhD.

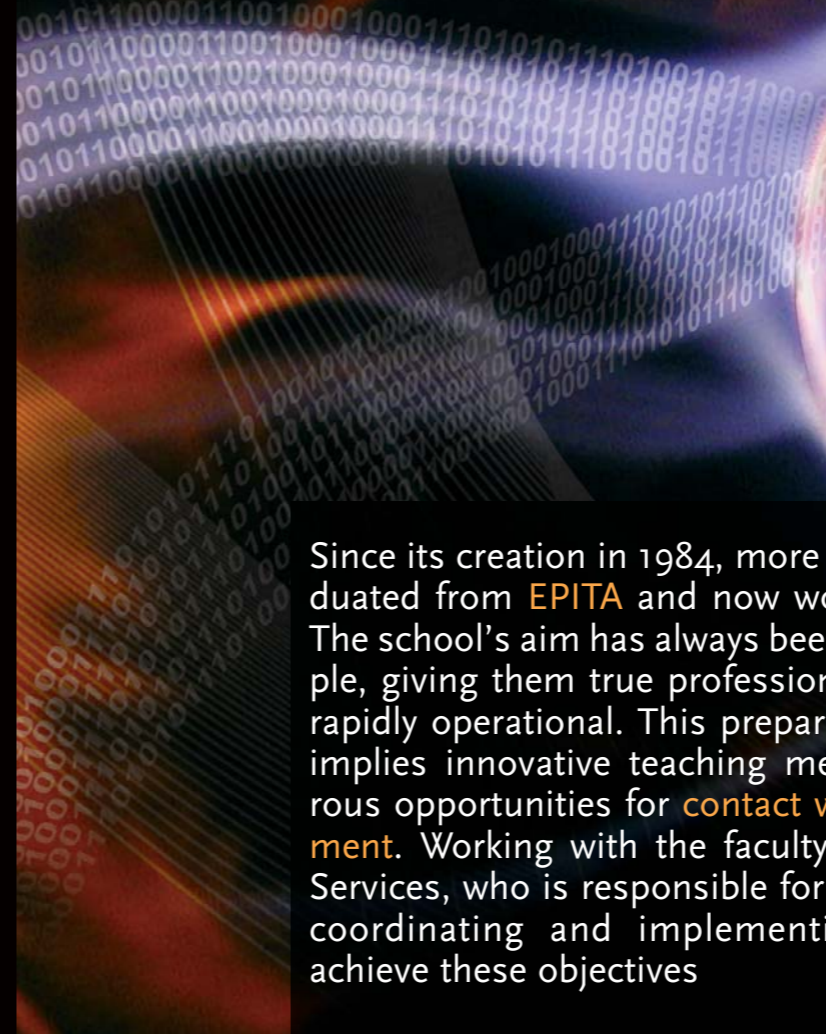
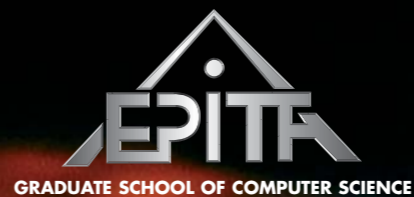
Information Systems and Software Engineering

Firms need to develop information systems and complex software applications whose primary features are reliability, top performance and the capacity to evolve. Firms' needs increase with the advent of the Internet and new technologies. Everything needs to go faster: a website must be set up, there must be interconnection between all the firm's information systems, new e-services must be offered, the firm must know its customers better, improve its management of suppliers, reduce costs, etc. The aim of the SIGL specialisation is to train engineers who will need to:

- ✦ Understand business and technological challenges
- ✦ Propose and build competitive and realistic solutions
- ✦ Intervene on complex issues
- ✦ Steer projects and the changes that these bring with them.

Telecommunications

Communication has always been at the heart of human societies. It is thanks to telecommunications that we are now seeing increasingly secure transmission of voice, data and image at ever faster speeds over ever greater distances. Whatever the firm's field of activity, telecommunications are of strategic importance. The challenge is therefore to optimise technical architectures and associated costs with the aim of developing new uses in order to improve the firm's competitiveness. The challenge: our daily life, but also the firm's performance and brand image. The context: a constantly changing environment ever richer in new services to be deployed.



Since its creation in 1984, more than 4500 students have graduated from EPITA and now work in more than 1700 firms. The school's aim has always been to train top-level young people, giving them true professional skills that will make them rapidly operational. This preparation for the corporate world implies innovative teaching methods, enriched with numerous opportunities for **contact with the professional environment**. Working with the faculty, it is the Director of Career Services, who is responsible for listing needs, and preparing, coordinating and implementing companies' actions to achieve these objectives

2008

EPITA PARIS SUD
14/16 RUE VOLTAIRE
94276 LE KREMLIN BICÊTRE CEDEX, FRANCE
PHONE +33 1 53 14 59 00
FAX +33 1 53 14 59 28
E-MAIL ENTREPRISES@EPITA.NET

EPITA

FEMII, the forum for companies in the engineering and IT sector

Although we recommend that our students adopt an active, personal approach to the search for internships, it is our responsibility to help them in this.

Consequently, each year, we organise a forum bringing together companies that wish to meet our students and new graduates. The FEMII is organised for all schools part of the Ionis Institute of Technology (2 engineering schools: Epita and ESME Sudria; 5 specialised schools: Epitech, IPSA, Etna, Sup'biotech and e-artsup).

To take part : forum@epita.net

Epita technological conference weeks

These weeks are organised twice a year for our students and group conferences by companies that come to share their experience of projects and emerging technologies, presenting software applications and the practical application of technologies. These talks, lasting 2 to 3 hours, represent real added value for students who gain insight into the latest developments on the market through the main players.

To take part: conferences@epita.net

Speed Dating for Internships

Short talks (30 minutes) for firms wishing to offer internships for the September-January period. The purpose of this week is to encourage direct meetings between students and companies, ensuring that contacts are made in the most efficient way. This week is particularly designed for end users.

To take part: conferences@epita.net

For 2008 events

- 18 to 23 February 2008
Career Plan
(third-year students)
- 5, 6 and 7 May 2008
Speed Dating for Internships
(third-year students)
- 12 to 16 May 2008
Technological Conferences, 15th Series
(5th-year students)
- end May 2008
Graduation Ceremony
(class 2007 students)
- 7 to 11 July 2008
Internships Oral Reports
(all students)

COMPANIES

Helping students prepare their career plan

The aim of this course is to help students define and implement their career plan. It begins with a special week, in the first year of the engineering course, organised with the help of former students and professional bodies who prepare a review of the market, showing how careers are changing and providing a few keys to help students define their career plan. In addition to general conferences on recruitment and the stages in this process (CV, accompanying letter, specialised sites, interviews, etc.), the career paths of alumni are very enriching for students who can discover the different facets of their seniors' work in very varied environments. On this occasion they also meet former students who have chosen to start-up their own companies or to work for themselves.

Sponsored study plans

Epita's specialised course options are for eighteen months. They consist of one year of academic studies and a six-month end-of-studies internship. During the year of academic studies, students must conduct a project, supervised by the teacher in charge of the option. This will allow them to gradually apply the concepts that they have studied and become acquainted with all aspects of project organisation. Depending on the option, the subjects may be compulsory or optional, according to the option director's decision, but suggestions may be made by a firm that wishes to entrust a group of students with the analysis and execution of a project based on specific job specifications. In such a case, a representative from the firm and a teacher will jointly follow the project, reviewing it four or five times during the year to monitor how students are developing, how their work is progressing, to provide advice and, when necessary, to get the project back on track. Finally, they will all sit on the project jury and grade the project.

Speed dating for Jobs

Students in their final year who have not been offered a job in the firm where they were on their final internship or those who are not interested in the proposals that they received, are invited to a cocktail party where they can meet representatives of a dozen or more firms with job vacancies. Firms and students will be able to continue their discussions in private. A dozen or more rooms are reserved for this purpose. EPITA's Career Services select companies according to students' expectations and the existing ties between the school and the company.

- 7 October 2008
Forum – FEMII 2008
(all students)
- 27 to 31 October 2008
Technological Conferences, 16th Series
(5th-year students)
- 16 January 2009
Presentation of Study Plans
(5th-year students)

Internships

June to August: Internships at the end of the Preparatory Classes: High-school diploma + 2 years of higher education
September to January: Internships the end of the Common Core: Bachelor's level
February to July: End-of studies internships: Master's level
For your internship offers: international@epita.fr (out of France)
stages@epita.net (in France)

Job Offers

For your « junior » offers: emploi@epita.net
For your « senior » offers: anciens@epita.net