



FRENCH SCHOOL OF ENGINEERING
Grande École d'ingénieurs

ESIGELEC



Supervised by the Chamber of Commerce and Industry of Rouen (CCIR)
Member of the French Conference of Management and Engineering Schools (CGE)
Member of the French Conference of Directors of Engineering Schools (CDEFI)
Fully recognized by the French Government

Engineer : a prestigious title in France after 5 years of higher studies
Engineering degree signed by the representative of the ministry of higher education
and accredited by the commission of engineering titles (CTI)
A balanced education in technological skills, humanities and individual development

12 Majors

electronic systems of telecommunication
communications
networks architecture and security
information systems engineering
engineering of embedded systems
automation and industrial robotics
electrical engineering and transports
mechatronics and electrical engineering
energy and sustainable development
biomedical engineering
business engineer
finance engineer

Founded in 1901, ESIGELEC

has now a long experience in the domains of education, research and development, international and industrial relations.

A total of approximately 1480 students and 300 teachers and staff of whom 110 are full-time

- 5 departments, 8 laboratories, and a research Institute
- Project based teaching
- A range of 12 technological majors and 9 professional paths subjects
- 8 bilingual French-English technological

majors

- 75 agreements with universities or engineering schools in 35 countries
- A network of 3000 companies of which 650 are outside France
- For french students, a compulsory period outside France : training periods, a semester, an intercalary year, or, in the final year, as part of a Master's degree.

A well-deserved reputation

ESIGELEC ranks amongst the top French engineering schools « Grandes Écoles ». The curriculum combines the broad-based teaching of science and technology, economics and management, with advanced majors and introductions to career paths that include a work placement abroad.

Students are taught by experienced engineers, university professors. They take part in industry-based projects and work placements in preparation for professional life.

Since the school's foundation in 1901, more than 8,000 students have graduated and gone on to work in almost 900 companies in France and abroad. ESIGELEC ranks among the top 30 Grandes Écoles in France

Admission to ESIGELEC

ESIGELEC has approximately 1480 students, divided into several programmes.

Ireland, Spain, Italy, China, India, Russia, the United States, Africa, Brazil, Mexico, Lebanon,... approximately 450 students from more than 35 countries on all continents study each year at ESIGELEC. 34 % of ESIGELEC students come from abroad.

Engineering cycle (mostly taught in French, with bilingual technical majors) :

1100 students in the 3 years engineering course :

- admission into the 1st year of this cycle, by completion of 2 years of higher-level science studies after the High School Leaving Certificate, African students have the possibility to do their preparatory courses in a Joint Preparatory Course proposed in partnership with institutions in Benin, Cameroun, and Senegal.
- admission into the 2nd year (equivalent of a 4th university year) by completion of 4 years of higher level studies after the High School Leaving Certificate.

Integrated and International Preparatory Classes (mostly taught in French, with some lectures taught in english) :

260 students in the school's own 2-year preparatory course :

- admission after the High School Leaving Certificate.

Linguistic and Scientific Preparation Year :

30 students in a Linguistic and Scientific Preparation Year in order to prepare themselves to the entry into the engineering programme in 2 or 5 years :

- admission after high school
- admission with 4 years of higher education (or 3 years + professional experience).

Masters of Science (taught in English) :

10 students in the Master of science in Business Information technology run by ESIGELEC and Rouen Business School :

- admission with 4 years of higher education for a 18 month-course.

10 students in the Master of science in Management of Electronic and Embedded Systems :

- admission with 4 years of higher education for a 18 month-course.

PhD programmes (taught in French or in English) :

40 students in the labs of our Institute of Research in Electronic and Embedded Systems (IRSEEM). 75 % of PhD students come from abroad.

Exchange programmes:

40 students welcomed on exchange programmes (Study programme, Double degree programme, Discovery week, project works.)

International network

ESIGELEC has partnerships with over 75 foreign universities in 35 countries :

Bilateral agreements in Europe, Canada, United States, Australia, Brazil, Argentina, Mexico, South Korea, India, China, Russia, Africa, Lebanon, consisting of exchanges between ESIGELEC and its partner-institutions for :

- laboratory project works,
- single semester or full year abroad ETCS (European Credit Transfer System),
- double degrees, and
- collaborative research projects,
- faculty exchanges.

Internationally orientated curriculum

Students do a compulsory internship abroad in order to complete their degree and must reach a minimal score of 750 in the TOEIC English test. The curriculum includes 8 bilingual technical majors (English-French). The school faculty includes native English-speaking teachers and lecturers.

Industry links

These links form a crucial part of the curriculum : each student dedicates 200 academic hours in the second and third years of their engineering cycle to projects recommended by companies, giving them the opportunity to work in conditions comparable to those of the industrial world. Each project involves a group of 6 students.

Three work placements in France and abroad, prepare engineering undergraduates for their entry into professional life. Representatives of the school's industrial partners sit on panels that assess results of students' internships, on the Development Committee and the Board of Governors, teach and lecture, maintain links with school's graduates and pay compulsory state-levied apprenticeship charge.

ESIGELEC leads also development contracts, technological consultancy, in-service training.

Internships are done by students (from 4 weeks minimum to 9 months).

There are work placements at three levels, as an unskilled worker, a technician and an engineer.

There is also the opportunity for the students to do an Intercalary course (sandwich year) : possibility of working a full year between the 2nd and 3rd of the engineering course.

Research

The Institute for research and development in Electronic and Embedded Systems or IRSEEM meets research requirements of automotive, aeronautical, electronics and telecommunications industries.

3 poles :

- Electronics & Systems (electromagnetism, EMC, microwaves),
- Automatics & Systems (control and diagnosis),
- Instrumentation, Computer Science & Systems (intelligent transport, instrumentation and embedded systems).

References : RENAULT, PSA (Peugeot), VALEO, SNECMA, DGA, THALES AIR DEFENCE, RENAULT TRUCKS, SNCF.

12 technological majors

During their 3-year or 5-year engineering cycle, all students initially follow a common broad-based curriculum : Industrial Electricity, General Electronics, Automation, Information Technology, Microprocessors.

Then, halfway through their 2nd year, they choose from one of the 12 available fields of specialisation :

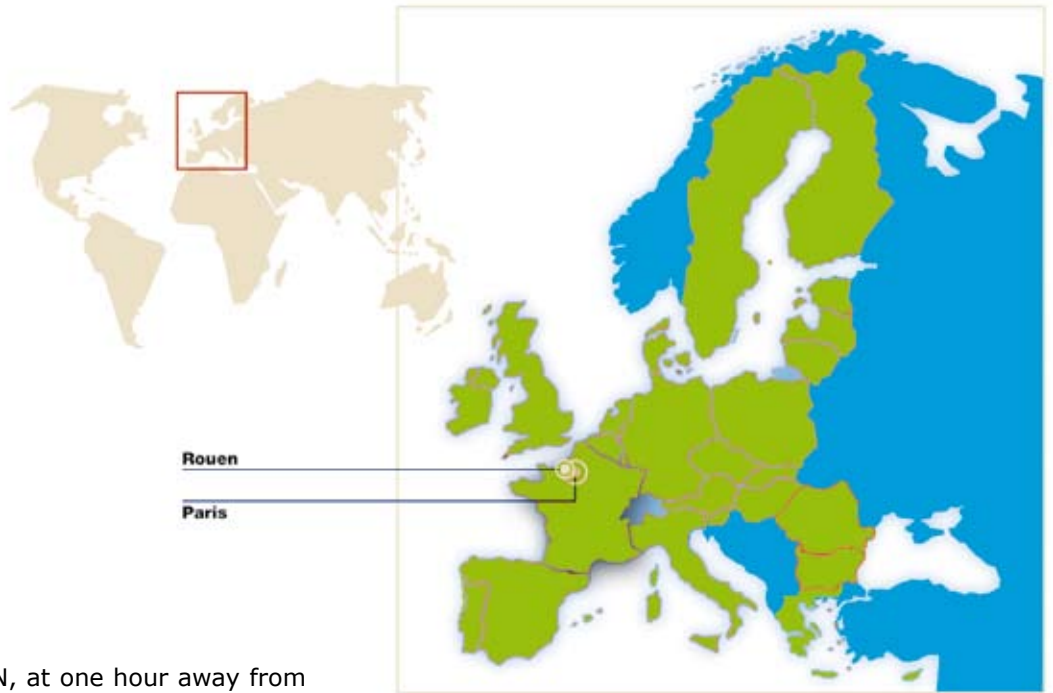
- electronic systems of telecommunication
- communications
- networks architecture and security
- information systems engineering
- engineering of embedded systems
- automation and industrial robotics
- electrical engineering and transports
- mechatronics and electrical engineering
- energy and sustainable development
- biomedical engineering
- business engineer
- finance engineer

and the following professional paths :

- Research and Development Design Engineer
- Project Manager and Project Engineer
- Logistics Engineer
- International Engineer
- Quality-Control Engineer
- Entrepreneurial Engineer
- Consulting Engineer
- Sales Engineer and Marketing
- Finance Engineer

Double degree courses available

- 2 Masters in Business/Management with 2 Schools of Management: Rouen Business School and Audencia
- 5 Masters in Research with partners at University, taken in parallel during the final year of engineering curriculum
- 7 Masters abroad with international partners in USA, UK, Canada,...
- 1 Master in Professional Business Administration



Facilities

ESIGELEC is located near ROUEN, at one hour away from Paris, easily accessible by rail and highway. Capital of Normandy and fifth largest port in France, Rouen is a hub of commerce. It is a city of half a million people. Located 60 kilometers from the English Channel, Rouen played an important part in French and English history. Joan of Arc was burned at the stake there in 1431. Rouen is a town full of monuments and art, and the Museum of Fine Arts has the largest collection of Impressionist art outside Paris.

NORMANDY in the west of France and Europe, is a beautiful region, with leading economic sectors such as automobile, aeronautics, telecommunications, information and communication technologies, research and development...

ESIGELEC has just moved in 2004 onto a dedicated Science Park which already houses several other higher education institutions (INSA, the University science departments), companies, research centers, as well as large-scale facilities for aeronautics and automotive research. The new site provides 12,000 sq.m of modern architecture for teaching and research activities, including 3 amphitheatres of 120 to 250 seats, 1 amphitheatres of 420 seats, and lecture rooms, research facilities, laboratories, self-service computer equipment, a multimedia language room, and permanent wifi access to Internet...



Photothèque de l'Office de Tourisme de Rouen - Photo de L. Lenoir

Interview

I am, Deepak DANG, indian student in the international field (Engineering Program) in ESIGELEC. The reasons which led me to choose ESIGELEC to continue my studies are numerous and important : first of all, the education is dynamic and opened to the international; dynamic because this school encourages and helps its students to form by the way of several trainings (Format in a company of variable duration between 1 month and 9 months, dependent on the year of studies); and opened to the international because its students are supposed to have an experience at least abroad.

Besides, ESIGELEC knows the importance of English in the world of the work and it is for it that its students are also supposed to obtain the TOEIC (Test of International English for Communication) to have their degree. All this is strengthened by the possibility of following a bilingual

forming English - French in the specialization.

Then, ESIGELEC introduces its students in the world of the work due to the project engineer: a technological project of a high level given by a company and made by 6 students during the 2nd and 3rd year. This project is accompanied with some « mini - projects » made during the 2nd year, in computer, electronic etc. Moreover many people from industrial partners of the school come to teach in some courses and bring their experience and knowledge to the students...

Finally, it is necessary as well to say as there is not only work in the life and effectively one can find in ESIGELEC of activities extra school as associations : desk of sports, International Relations, Official reception, etc. which help to enrich our social life.

Information

To contact
International Relations Department
at ESIGELEC :

Email : international@esigelec.fr
Web site: www.esigelec.fr



ESIGELEC



Technopôle du Madrillet
Avenue Galilée - BP 10024
76801 SAINT-ÉTIENNE-DU-ROUVRAY
FRANCE

Tél. : +33 (0)2 32 91 58 58
Fax : +33 (0)2 32 91 58 59
Website : www.esigelec.fr
E.mail : esigelec@esigelec.fr