

+ ENVIRONMENT

University education

Strasbourg University is one of France's largest universities with 44,000 students, (20% being foreign students), and almost 2,800 lecturers and researchers. (The University has well established connections within the European community.)



The School and Observatory for Earth Sciences, (EOST), is incorporated into the University of Strasbourg and part of the Alsace Tech network of Engineering Schools in Alsace.

The EOST is a major centre for education and training in Geosciences in France, providing courses for the engineering diploma, Bachelors and Masters degree level in Earth and Environmental Sciences, together with 70 doctoral students.

Research

The EOST consists of 200 people working at two sites on the central campus, in the research units and observatories associated with the CNRS : The Strasbourg Institute of Earth Physics (IPGS), the Strasbourg Laboratory of Hydrology and Geochemistry (LHyGeS), the observatories in seismology, gravity, magnetism and the environment.

Culture

With the culture card, students have low cost access to a wealth of cultural works and performances such as shows, theaters, cinemas, museums and exhibitions in Alsace.



Photo Jacques Hampe

The City

Due to the richness and density of its heritage, the entire city center of Strasbourg was declared a World Heritage Site by Unesco. Renowned for its beauty, the city is also famous for its history, lifestyle and cuisine.

Photo Architecture Studio

Strasbourg is a very cosmopolitan city at the heart of Europe, with the European Parliament, the Council of Europe, the European Court of Human Rights and around twenty European organisations and international bodies.



Yves Noto-Camparella

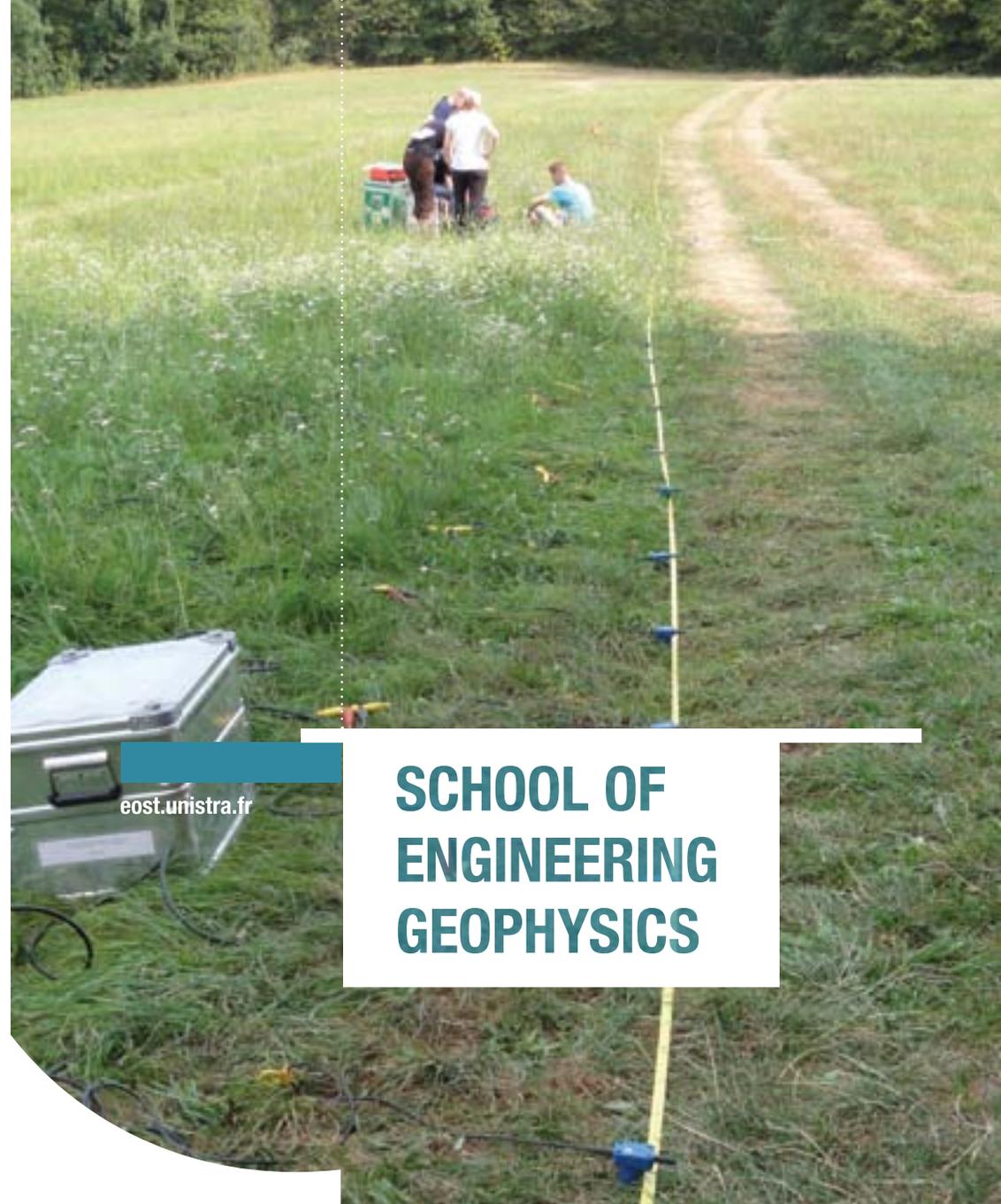
It is also a city which for decades has encouraged more pleasant forms of transport, (trams, cycling, walking). The "Strasbourg aime ses étudiants" initiative ("Strasbourg loves its students") helps each year to promote student life and facilitate the arrival of students to the area.

For more information:

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SCHOOL OF ENGINEERING GEOPHYSICS

ÉCOLE ET OBSERVATOIRE DES SCIENCES DE LA TERRE

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SCHOOL OF ENGINEERING GEOPHYSICS

Founded in 1920, the «Ecole et Observatoire des Sciences de la Terre» is the only French Engineering School devoted to Geophysics. Courses combine solid theoretical training with laboratory work as well as more practical field work in conjunction with the industrial sector.

As part of the University of Strasbourg, the school offers the EOST engineering degree, which is recognised by the Engineering Titles Committee.

+ TRAINING

The Engineering students' training is based on the in-depth study of geophysical methods, the geological environment and the mathematical and computing tools used for data processing and interpretation.

1st and 2nd Years

+ Compulsory modules: Mathematics, IT, Numerical Analysis, Signal Processing, Inverse Methods, Mechanics, Electromagnetism, Seismic Waves, Geology, English, Economy, Management.

+ Optional modules: Seismology, Seismic Imaging, Geodesy, Gravimetry, Potential Methods, Rock Physics, Hydrology, Geochemistry.

- + Practical work: Collecting geophysical data in the field and in the lab, geophysics fieldwork in the Vosges mountains, structural geology fieldwork in the Alps.
- + IT project, research project in geophysics.
- + 4-week Summer internship in a laboratory undertaking a supervised research project or working within a company to gain commercial experience.

3rd year

- + Modules and lectures given in majority by industry external speakers on exploration and production, energy and mineral resources, Geothermal Energy, Geotechnics, the Environment, Natural Hazards and Hydrology.
- + Fieldwork in subsurface geophysics in Alsace
- + 6 months internship with a company (in France or abroad) leading to a thesis required for graduation

Three courses to choose from in the third year

- + Geophysics applied to exploration and production of raw materials.
- + Geophysics applied to Geotechnics and the Environment.
- + Hydro G3 : Hydrogeophysics, Hydrogeology, Hydrogeochemistry

- • • • • Students wishing to move into the research field may in parallel undertake the 3rd year of the Engineering School and the **second year of the Earth Sciences Master.**
- • • • • There is also the possibility of a double degree in four years with the Nancy School of Geology (ENSG).



+ OPPORTUNITIES

Engineering graduates would expect to be employed by companies and organisations involved in the study of the ground and the understanding of geological processes so as to :

- + Seek and exploit underground resources (hydrocarbons, water, ores)
 - + Manage the geological environment, natural hazards, pollution, storage, geotechnics.
 - + Improve awareness and monitoring of the planet (earth, ocean, space)
- Some examples :
- + Oil and gas companies (Total, GDF-Suez, Shell, Statoil)
 - + Geophysical service companies (CGG, Schlumberger, Beicip-Franlab)
 - + Public Agencies (CEA, IFP, BRGM...)
 - + Research organisations and institutions of higher education (CNRS, Universities, IRD...)

- • • • • Possibility of an academic year in one of our European partner universities as part of the Erasmus program.

+ ENTRANCE

- 1st year entrance examination
- + CCP exams for MP, PC, PSI preparatory class students
- + G2E (Geology Water, Environment) exams for BCPST preparatory class students

Admission by application

- + First year entrance for holders of a L2 or L3, (Bachelor's degree), in a predominantly mathematics,

physics or Earth sciences oriented course.

+ 2nd year entrance for holders of a M1 (first year of Master's degree) in the same disciplines.

More than half of the engineering students at EOST are women.

The admissions panel selects candidates at the beginning of July according to the grades achieved in the university curriculum.

+ EDUCATIONAL RESOURCES

Around thirty faculty members of EOST, many external teachers, lecturers and tutors from industry are involved in the training of Engineering students.

Three computer labs, a library, a practical Geophysics laboratory and rooms for private work as well as relaxation are available to students. A range of geophysical equipment is provided for use during field trips.

The 2nd year research project is conducted in a research laboratory or observatory of EOST. Each Student is monitored individually by a scientist.

+ COMMUNITY LIFE

The school has two student associations and an alumni association, Géophysé.

The Student's Union, Le Bureau Des Élèves (BDE) aims to enhance the student life at the school. The association organizes social activities (Integration weekends, theater, sports activities) and offers discounted group purchases of books and study materials.

The Strasbourg University Geophysical Society (SUGS) is the French section of the Society of Exploration Geophysicists. It aims to inform students about the world of Engineering Geophysics to improve their employability. It organizes site visits, field trips and lectures throughout the academic year. It also organises the annual participation of the school in the European Congress EAGE.