Build your future with ESTP Paris

125 years of success

ASSOCIÉ À LA COMUE UNIVERSITÉ PARIS-EST

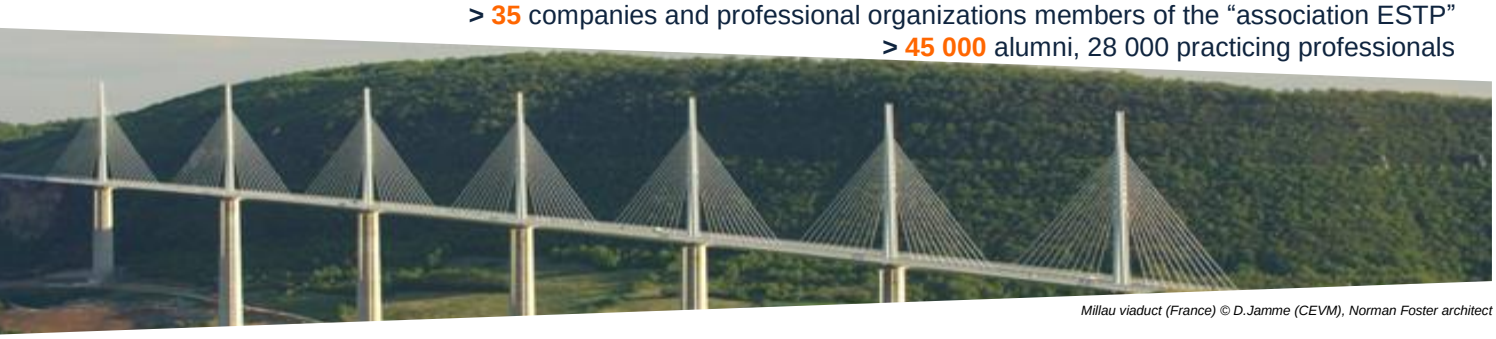
Ecole Spéciale des Travaux Publics, du Bâtiment et de l'Industrie (ESTP Paris) was founded in 1891 as a private higher education institution and officially recognized by the French Government in 1921. Today it has the legal form of a non profit making association with a status of ‘‘general interest” (EESPIG) givenby the French government.
Since 2010 ESTP Paris is an associate member of the higher education & research community (COMUE) UNIVERSITE PARIS EST.
ESTP Paris is habilitated to award national diplomas and degrees recognized by the Ministry of Higher Education and Research and since the founding of national authority “Commission des Titres d'Ingénieurs” in 1934, accredited to award the engineering degree “diplôme d'ingénieur-master's degree”.
In France, ESTP Paris trains **the biggest student flow for the construction industry** and has made its reputation as THE “Grande Ecole” for professionals in this area, in all its aspects: design, construction, planning & development, project & facilities management, sustainable buildings & infrastructures, rehabilitation, maintenance, topography, geomatics, new materials, energy efficiency, ...
The main characteristics of the ESTP are its **close links to industry,** its **strong international relations with universities around the world,** its **equal opportunities policy** and the **emphasis on sustainable development.**
At an international level, ESTP Paris benefits from an ERASMUS+ Charter; is a member of CampusFrance, the French-German University (DFH-UFA) & the “Agence Universitaire pour la Francophonie” (AUF); has a close partnership with the Institution of Civil Engineers (ICE); is accredited by the Institution of Chartered Surveyors (RICS) and has built up a thriving network of 80 top level universities abroad.

The "Grande Ecole d'Ingénieurs"

ESTP Paris is one of the French “Grandes Ecoles”, which are the leading institutions for French engineering and management education. The “Grandes Ecoles” are distinguished by a highly selective admission process, a limited number of students and quality programmes. Most of them are members of the "Conférence des Grandes Ecoles (CGE)" and most of the engineering institutions of the "Conférence des Directeurs des Ecoles Françaises d'Ingénieurs (CDEFI)". ESTP Paris is also a founding member of the network: "Union des Grandes Ecoles Indépendantes (UGEI)".
In France, the title of “engineer” and the professional habilitation associated with it, is awarded with the 5 year degree “diplôme d'ingénieur –master's degree”. Studies are normally accomplished in a “Grande Ecole d'Ingénieurs” after a two year programme in further science at the “classes préparatoires” followed by a selective entrance examination. The engineering degree programmes are reviewed and accredited every 5 years by national authority "Commission des Titres d'Ingénieur (CTI)".

ESTP Paris in figures

> 2 600 graduate students
> 400 undergraduate students
> 1 000 adults in Continuing Education
> 700 foreign students on “international programmes”
> 200 permanent teaching staff
> 900 non permanent teaching staff
> 75% professionals who participate in the teaching
> 8 000 applicants at the entrance examination for the “diplôme d'ingénieur-master's degree” course
> 35 companies and professional organizations members of the “association ESTP”
> 45 000 alumni, 28 000 practicing professionals



Millau viaduct (France) © D.Jamme (CEVM), Norman Foster architect

> A wide choice of training programmes

Today, ESTP Paris offers a large variety of programmes at different levels. The language of instruction is French, except for the "International programmes taught in English" listed below.

UNDERGRADUATE PROGRAMMES

- a two year **construction site manager** course after the « baccalauréat » (A levels), awarding a **specialised technician's diploma** in two fields:
  - Building Engineering
  - Public Works

  This programme is offered both as a full-time course and as a sandwich course (1) where students work half time in a company.
- a one year programme for holders of a two year diploma leading to a **bachelor degree** (2) in:
  - Construction Site Management (full time & sandwich course)
  - Calculations & Design for Construction Projects (sandwich course)

GRADUATE PROGRAMMES – TAUGHT DEGREES

- a two year course for holders of a bachelor degree, leading to a **master's degree** in nuclear civil engineering (high performance structures, innovative materials, safety)
- a three year engineering degree course after a 2 year technical degree from university leading to the "**diplôme d'ingénieur - master's degree"** in energy efficiency in buildings. This programme is a sandwich course where students work half time in industry (3)
- a three year engineering degree course after 2 years of "classes préparatoires", leading to the "**diplôme d'ingénieur - master's degree",** with four possible specializations:
  - Building Engineering
  - Public Works
  - Topography-Geomatics-Surveying
  - Mechanical-Electrical Engineering

Awarded Quality labels for this programme : CTI Commission des Titres d'Ingénieur, EUR-ACE®, RICS the mark of property professionalism worldwide

GRADUATE PROGRAMMES – RESEARCH DEGREES

- **PhD degrees** (4) in the following areas:
  - Materials (road & cement); Geotechnics, (soil mechanics, scour & erosion); Structural Mechanics (civil engineering structures); Energy efficiency in buildings; Geographical Information System; Building Information Modeling; Risk Management

GRADUATE PROGRAMMES – INSTITUTIONAL DIPLOMAS

- one year professional specialization after a master's degree leading to an **institutional diploma "mastère spécialisé®":**
  - Construction Commissioning & Contracting and Real Estate Management (MOGI)
  - Management of Construction Firms (AMEC)
  - Real Estate & Facilities Management (MIS)
  - Real Estate Management of Office Buildings (MIT)
  - Running & techniques of a Contracting Company (MTEG)
  - Emergencies in Buildings & Infrastructures (UBI)
  - Sustainable Housing & Construction (CHD) (5)
  - Global Risk Management (MGR) (6)
  - Building Information Modeling, Integrated Design & Life Cycle of Buildings & Infrastructures (BIM) (7)

MSE Mastère spécialisé®

Awarded Quality label for the MOGI programme : RICS the mark of property professionalism worldwide

INTERNATIONAL PROGRAMMES – INSTITUTIONAL CERTIFICATES

- Master degree in Nuclear Civil Engineering taught in English
- Individual learning agreements with lectures of the engineering degree course taught in English.
- Bachelor & master thesis, research work supervised in French or English.

- Intensive courses in French language for Engineers (8) including:
  - general language proficiency
  - scientific & technical vocabulary
  - methodology of French engineering education
  - French culture

Awarded Quality labels : fle QUALITÉ

ADULT EDUCATION

- Various **Continuing Education** programmes for adult professionals in all areas of construction:
  - short sessions for a specialization/updating in a particular field
  - long term training programmes for new professional qualifications

Programmes organized with partner institutions:

(1) For the sandwich course: apprenticeship centre (CFA) PME Apprentissage
(2) Degree conferred by Conservatoire National des Arts et Métiers (Cnam) ; for the sandwich courses partnership with apprenticeship centre (CFA) PME Apprentissage
(3) Apprenticeship centre (CFA) Ingénieurs 2000
(4) Doctoral schools "SIE" of Université Paris Est and international partner universities
(5) Arts et Métiers ParisTech (ENSAM)
(6) Arts et Métiers ParisTech, IAE Paris, HEC
(7) Ecole des Ponts ParisTech (ENPC)
(8) EPF, Ecole d'Ingénieur

Research & PhD studies

The ESTP Paris research activities are carried out in the framework of the "**CONSTRUCTABILITY RESEARCH INSTITUTE**" (IRC). "Constructability" being defined as the "*Study to optimize, right from the design of a project, the best construction or rehabilitation strategy for the civil engineering works or buildings. It takes into account the construction data and parameters, environment and past experience to achieve the objectives and optimize the means, the costs and the delays.* ***« To do more with less ».***"

The IRC research team works transversely in the following fields:

Materials (road & cement); Geotechnics, (soil mechanics, scour & erosion);
Structural Mechanics (civil engineering structures); Energy efficiency in buildings;
Geographical Information System; Building Information Modeling; Risk Management.

PhD studies may be carried out in these areas in co-operation with doctoral school SIE of Université Paris Est (see below), foreign partner universities and companies.

"Industrial Training & Research Centres" ESTP Paris "chairs" combine **teaching-innovation-research** in close partnership with companies. The aim is to offer opportunities for innovation and research projects and new in-depth knowledge for students.

> Nuclear Civil Engineering

This chair deals with **civil engineering issues regarding nuclear power plants** (design & planning, construction, maintenance, decommissioning, safety management).
A master's programme as well as a specialization of the engineering degree programme with courses taught in English as well as PhD programmes and Continuing Education modules are offered in this field.
The following companies experts in this area are partners of ESTP Chair: ALYOTECH, AREVA, EDF, EGIS, NUVIA Travaux Spéciaux (VINCI), QUILLE Construction (BOUYGUES), RAZEL-BEC, SPIE BATIGNOLLES, TRACTEBEL ENGINEERING (GDF-SUEZ).

> Concrete Materials Engineering

This chair deals with all issues linked to the use of concrete in construction projects, such as: new concrete, its use, behaviour, rehabilitation, soil and road treatment, … Partners are: CIMBETON, Ecole Française du Béton, Groupe VICAT.

Innovation and Research at master's level

- ESTP Paris engineering degree syllabus (masters' degree) includes an introduction to research and innovation. Students may carry out optional **applied research, innovation & entrepreneurship projects** during their studies at ESTP Paris in close partnership with firms and research laboratories. About 150 students and 50 projects are concerned each year. A presentation of all projects takes place every year in May and is open to the public.
- A certain number of ESTP Paris students work on their **final engineering-master's degree thesis in research laboratories** in France and abroad. In return, ESTP Paris welcomes students from its international partner universities in its laboratories to work on research projects or to complete their bachelor or master thesis.
- Selected ESTP Paris engineering degree students may be detached to spend their last year at one of the French or foreign partner universities to prepare a **master by research degree** which will count towards their ESTP degree.
- ESTP Paris itself offers a **master's programme in Nuclear Civil Engineering** (see following page).

Partnerships

ASSOCIÉ À LA COMUE
UNIVERSITÉ PARIS-EST

- Since 2010, ESTP Paris is an associate member of Higher Education and Research Community (COMUE) **UNIVERSITE PARIS EST** that brings together a great diversity of partners: universities (Université Paris-Est Créteil, Université Paris-Est Marne-la-Vallée); engineering schools (Ecole des Ponts ParisTech, ESIEE, EIVP, …), architecture schools, research centres, laboratories and groups (IFSTTAR, CSTB, IGN, ADVANCITY, …). The aim of Université Paris Est is to mutualise infrastructures, develop joint research activities and create a high level international campus, attractive to students, researchers and faculty. Its research area "City, Environment & related Engineering" as well as doctoral school "Science, Engineering and Environment" (SIE) are of particular interest to ESTP Paris.
- French **companies, laboratories, universities and schools** work in close partnership with ESTP Paris to work on joint training, research & innovation projects.
- ESTP may count on its excellent **international network of top level universities** to develop student & faculty exchanges, R&D activities and joint doctoral degrees.

> International Programmes
> Institutional Certificates

Master's programme taught in English

The masters in **Nuclear Civil Engineering** is a high level science & cutting-edge technology programme leading both to PhD studies & immediate career opportunities in France and abroad. Its multidisciplinary and professional approach deals with the **design** of new generation power plants, **operating** and **dismantling** the existing buildings with a strong emphasis on safety and waste management according to the demanding criteria of **sustainable development**. Apart from the nuclear energy, other industries and all **complex civil engineering works** need **safe structures** built with **innovative materials**.

The master's programme in Nuclear Civil Engineering is taught as part of ESTP Paris chair which combines teaching-innovation-research in close partnership with companies that sponsor the activities in this area. Representatives from top level French firms participate actively in the teaching.

Lectures are held in English, and evening classes of French language are a compulsory complement to the syllabus.

According to their prior studies and achieved learning outcomes, students may be admitted directly to the last year of this 2 year programme.

Individual learning agreements with lectures taught in English

ESTP Paris engineering degree programme includes lectures taught in English.

Foreign students may be admitted to ESTP Paris with a personalized syllabus including these subjects. The list of offered subjects evolves regularly, but is focused on core subjects in civil engineering: strength of materials, metal construction, concrete, … as well as the 3rd year specializations:

- Sustainable Buildings & Cities
- Nuclear Civil Engineering

Most of these lectures take place during the first semester of the academic year (September-January or February).

Evening classes in French language are a compulsory complement to the individual study plan of courses taught in English.

Successful students are awarded an institutional certificate.

Research projects supervised in French or English

Foreign students are also welcome to participate in the research activities of the ESTP Paris Constructability Research Institute while working at the same time on their bachelor's, master's or PhD thesis. They may be supervised by ESTP Paris professors in French and in English.

The minimum duration of the stay should be 4 months, at any time of the academic year or during the summer.

A certificate may be issued at the end of the research period.

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ESTP Paris is located on two sites:

- A seven hectare campus in Cachan (in the inner suburbs of Paris), where all teaching & research activities are organized. Sports facilities, a student residence and restaurant are also at the disposal of all ESTP Paris students on campus.
- Premises in central Paris where adult education programmes are organized.
- Both campuses are easy to reach by public transport. The Cachan campus is linked to central Paris and airports Charles-de-Gaulle and Orly by direct commuter express train "RER B".

ESTP Paris
Private Higher Education Institution of General Interest (EESPIG)
Recognized by the French government (decree of 5/02/1921)
Legal form of a Non Profit Association (law of 1st July 1901)
Associate Member of COMUE Université Paris Est (UPE)