

122 years of success

The Ecole Spéciale des Travaux Publics, du Bâtiment et de l'Industrie (ESTP) was founded in 1891 as a private higher education institution and officially recognized by the State in 1921. The ESTP is habilitated to award national diplomas and degrees by the Ministry of Higher Education and Research and since the founding of national authority "Commission des Titres d'Ingénieurs" in 1934, to award the engineering degree "diplôme d'ingénieur-master's degree".

Since November 1999, the non-profit-making association ESTP is closely associated with another, state-owned, French "Grande Ecole", Arts et Métiers ParisTech (ENSAM). In 2010, the ESTP joined the higher education & research cluster (PRES) UNIVERSITE PARIS EST.

In France, the ESTP 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 and facilities management, sustainable buildings & infrastructures, rehabilitation, maintenance, new materials, energy efficiency... The main characteristics of the ESTP are its close links to industry, its strong international relations, its equal opportunities policy and the emphasis put on sustainable development.

The "Grande Ecole d'Ingénieurs"

The ESTP 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)". The ESTP is also a founding member of the network of private "Grandes Ecoles": "Union des Grandes Ecoles Indépendantes (UGEI)".

In France, the title of "engineer" and the professional habilitation that goes 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" and a selective entrance examination. The engineering degree programmes are reviewed and accredited every 5 years by national authority "Commission des Titres d'Ingénieur (CTI)".

The ESTP in figures

- > **2 200** graduate students
- > **400** undergraduate students
- > **1 000** adults in Continuing Education
- > **700** foreign students on "international programmes"
- > **185** permanent teaching staff
- > **720** non permanent teaching staff
- > **63%** professionals who participate in the teaching
- > **9 000** applicants at the entrance examination for the engineering degree course
- > **50** companies and professional organizations members of the "association ESTP"
- > **40 000** alumni, 26 000 practicing professionals



> A wide choice of training programmes

Today, the ESTP 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 where students work half time in a company.

- a one year programme for holders of a two year diploma leading to a **bachelor degree** in:

- Construction Site Management ⁽¹⁾ (full time & sandwich course)
- Calculations & Design for Construction Projects ⁽¹⁾ (sandwich course)

GRADUATE PROGRAMMES

TAUGHT DEGREES

- a two year course for holders of a bachelor degree, leading to a **master’s degree** in geomatics ⁽²⁾

- 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 :



GRADUATE PROGRAMMES

RESEARCH DEGREES

- **PhD degrees** ⁽⁴⁾ in following areas & topics:

- Materials, Geotechnics, Structural Mechanics (road & cement materials; soil mechanics, scour & erosion; civil engineering structures)
- Projects : Management, Organization, Optimization (constructibility & 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)
- Running of Small and Medium Sized Construction Companies (DPME)
- Construction & Management of Health Institutions (IIES)
- 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⁾

Awarded Quality label for the MOGI programme :



INTERNATIONAL PROGRAMMES

INSTITUTIONAL CERTIFICATES

- 1 semester coursework programmes, taught in English:

- Nuclear Civil Engineering
- Sustainable Buildings & Cities

- 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 ⁽⁷⁾ including:

- general language proficiency
- scientific & technical vocabulary
- methodology of French engineering education
- French culture

Awarded Quality labels :



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) Conservatoire National des Arts et Métiers (CNAM)

(2) ENSG, ESGT, INSA Strasbourg

(3) CFA Ingénieurs 2000

(4) Doctoral schools “SIE” of Université Paris Est and “SMI” of Arts et Métiers Paristech (Ensam) & international partner universities

(5) Arts et Métiers ParisTech (ENSAM)

(6) Arts et Métiers ParisTech, IAE Paris, HEC

(7) EPF, Ecole d’Ingénieur

> Research & Innovation

Research & PhD studies

The ESTP research activities are carried out in the framework of the “**CONSTRUCTIBILITY RESEARCH INSTITUTE**” (IRC).

Research teams are organized in two groups who work transversely in the following fields:

- ▀ “MGMS”: Materials, Geotechnics, Structural Mechanics
- ▀ “PGOO”: Projects: Management, Organisation, Optimization

Topics of particular interest are: road and cement materials; soil mechanics, scour & erosion; civil engineering structures; constructibility & energy efficiency in buildings; geographical information system; building information modelling; risk management.

PhD studies may be carried out in these areas.



"Chair" in nuclear civil engineering

The ESTP “chair” combines **teaching-innovation-research** in close partnership with companies in the area of **civil engineering issues regarding nuclear power plants** (design & planning, construction, maintenance, decommissioning, risk & safety management).

The aim is to offer opportunities for innovation and research projects and new in-depth knowledge for students. A training programme at master’s level of 220 contact hours and 18 ECTS credits as well as PhD degrees and Continuing Education modules are offered in this field.

Following companies that are experts in this area are partners of the ESTP Chair: ALYOTECH, AREVA, EDF, EGIS, NUZIA Travaux Spéciaux (VINCI), QUILLE Construction (BOUYGUES), RAZEL-BEC, SPIE BATIGNOLLES, TRACTEBEL ENGINEERING (GDF-SUEZ).

Innovation and Research at master’s level

- ▀ The ESTP engineering degree syllabus (masters’ level) includes an introduction to research and innovation. Students may carry out optional **applied research, innovation & entrepreneurship projects** during their studies at the ESTP 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 students work on their **final engineering degree thesis (master’s level) in research laboratories** in France and abroad. In return, the ESTP welcomes students from its international partner universities in its laboratories to work on research projects or to carry out their bachelor or master thesis.
- ▀ Selected ESTP 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.

Partnerships

- ▀ The association with **Arts et Métiers Paristech** (ENSAM) is a priority and joint projects are carried out at many levels: training, research, international relations.
- ▀ Since 2010, the ESTP is a member of Higher Education and Research Cluster “Pôle de recherche et d’enseignement supérieur - PRES” **UNIVERSITE PARIS EST** that brings together a great diversity of partners: universities (Université Paris-Est Marne-la-Vallée, Université Paris-Est Créteil); “Grandes Ecoles” (Ecole des Ponts ParisTech, ESIEE, EIVP, ...), research centres, laboratories and groups (IFSTTAR, CSTB, IGN, ADVANCITY, ...). Université Paris Est is mainly focused on the scientific cooperation of all its members. Two of its 6 scientific departments are of particular interest to the ESTP: “City, Transport and Territories” and “Science, Engineering and Environment”. The aim is to mutualise infrastructures, develop joint research activities and create a high level international campus, attractive to students, researchers and faculty.
- ▀ French **companies, laboratories, universities and schools** work in close partnership with the ESTP to carry out joint training, research & innovation projects.
- ▀ The ESTP may count on its excellent **international network of top level universities** to develop student & faculty exchanges, R&D activities and joint doctoral degrees.

UNIVERSITÉ
— PARIS-EST

ARTS
ET MÉTIERS
ParisTech

> International Programmes

> Institutional Certificates

One semester coursework programmes taught in English

The engineering degree programme includes a specialization during the last year of studies. Amongst the proposed topics, two are taught in English:

- **Sustainable Buildings & Cities**
- **Nuclear Civil Engineering**

Representatives from top level French firms participate actively in the teaching.

They take place during the 1st semester of the academic year, from end of November to mid-February.

These courses are open to international students. 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.

The above mentioned topic in Nuclear Civil Engineering is taught as part of the ESTP "chair" which combines teaching-innovation-research in close partnership with companies that sponsor the activities in this area.

Individual learning agreements with lectures taught in English

Apart from the last year specializations mentioned on the left, other, single subjects of the engineering degree programme are taught in English. Foreign students may be admitted to the ESTP 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, ...

These lectures take place during the first and second semesters of the academic year.

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 Constructibility Research Intitute while working at the same time on their bachelor, master's or PhD thesis. They may be supervised by ESTP 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 summer.

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

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The ESTP benefits from two sites:

- A six hectare campus at 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 students on campus.
- Premises in central Paris where adult education programmes are organized.
- Both campuses are easily reached 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".