

SMART CITIES & ENGINEERING for Sustainable Architecture

A 3-week programme taught in English
July 2nd to 20th 2018 | Paris and Troyes





A SUMMER SCHOOL OF APPLIED SCIENCES

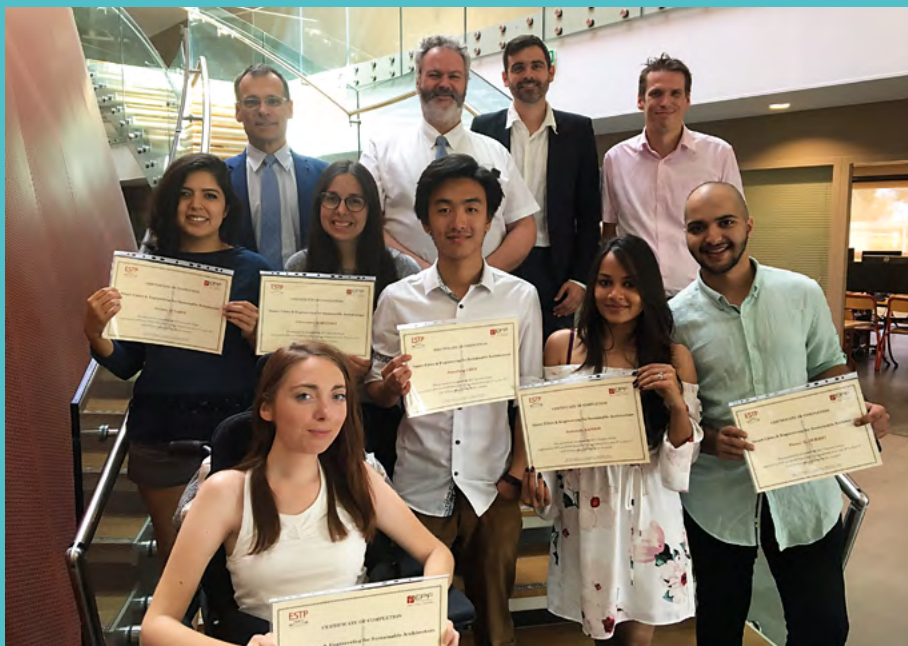
EPF-ESTP Paris Summer Programme on **Smart Cities & Engineering for Sustainable Architecture** offers an in-depth study on topics such as engineering for eco-cities and smart cities, green issues, city planning and architecture for the future.

Mainly designed for Undergraduate and Master students with a major in Engineering or Architecture, the programme is composed of 2 modules:

- The module in Paris (Cachan) focuses on topics such as eco-cities and smart cities, city planning, spatial planning and economic issues for sustainable development.
- The module in Troyes focuses on practical application using innovative teaching methods and modern technology.

A ten-day-workshop based on a real case study suggested by the division of Urban and Sustainable Planning of Troyes will be organized.

Students will be evaluated at the end of the programme and will receive **6 ECTS credits** upon successful completion of the modules.





ACADEMIC TOPICS

- Smart cities
- Sustainable architecture and urban planning
- Engineering for resilient cities and buildings
- Indoor thermal & acoustic comfort in home design
- Energy efficiency in buildings
- Bio-sourced building materials
- Renewable energy resources integration in smart cities
- Energy-efficient districts
- Future cities and big data
- Research methodology on sustainable development projects



CULTURAL VISITS AND FIELD TRIPS

- Museum for Architecture and Cultural Heritage, Paris
- Bateaux mouches cruise on the Seine river, Paris
- Visit of the Domain and Castle of Sceaux
- Visit of Troyes medieval City center, organized by the Urban and Sustainable Planning Department of Troyes' City Hall
- Visit of a Champagne vineyard in the Champagne-Ardennes region

All students will be initiated to the French language in addition to cultural visits, which will contribute to a perfect understanding of the local social and professional environment.

Note: Programme content may be subject to change or cancellation based upon low enrollment

APPLICATION AND FEES

The programme fee of **2.500 euros** covers:

- Tuition and documentation
- Welcome and farewell events
- Access to EPF and ESTP Paris facilities
- Free internet access
- Official programme certificate
- Cultural and social events
- Transfers from Cachan Campus to Troyes Campus
- Lodging expenses for 3 weeks

For students coming from universities in partnership with EPF and ESTP Paris, a special fee of 2.250 euros may apply. A group discount may be awarded.

Living expenses, individual insurances and visa fees are not included.

ACCOMMODATION AND SUPPORT

Accommodation in student residences will be organized by EPF-ESTP Paris. Shops and transports will be easy to reach.



APPLICATION DEADLINE
May 1st, 2018

"The summer school programme in "Smart cities & Engineering for sustainable architecture" has enabled have a clear view of how to implement our theoretical knowledge in practical aspects. The visits of Challenger, Bouygues headquarters, Troyes tourist information building, and many others, gave us a realistic approach of the building. The summer programme taught us how to handle problems keeping in mind the required norms and regulations of building. The experience in France has helped me widen my vision by working with international architects and students having different creativity and thinking criteria. The main aim of coming to France was to analyze the studies being carried out there and I can surely say that I would love to go back to France for my master's degree. This whole experience (the visits, lectures and workshops), really helped me enrich my knowledge and skills."

Himanshi, India





EPF - Ecole d'ingénieur-e-s

Founded in 1925 and located in Sceaux, Troyes and Montpellier, EPF is one of the best post-secondary School for general engineering sciences. In 1991, EPF - Graduate School of Engineering - acquired the status of Public Foundation and became co-educational in 1994. **EPF offers to its 2 000 students a year (including 15% of international students) a five-year post-secondary engineering sciences curriculum.** First three years consist in a general curriculum. In 4th year, students chose among 7 different Majors: Aeronautics & Space, Structures & Materials, Engineering & Health, Engineering & Management, Engineering & Digital technologies, Energy & Environment, Buildings & Eco-cities. **EPF's diplomas are accredited by the French Ministry of Higher Education and Research** and the "Commission des Titres d'Ingénieurs". EPF is a member of both the "Conférence des Grandes Ecoles" (CGE) and the "Union des Grandes Ecoles Indépendantes" (UGEI).

EPF's curricula favors a faster integration into the job market with one of the highest starting salaries amongst post-secondary schools. **More than 10 000 graduated engineers from EPF** are spread out within the industry and service sectors.



ESTP - Paris

Ecole Spéciale des Travaux Publics, du Bâtiment et de l'Industrie was founded in 1891 as a private higher education institution and officially recognized by the French government in 1921. Its degrees are accredited by the Ministry of Higher Education & Research and the "Commission des Titres d'Ingénieurs" (CTI).

Several training programmes have been awarded quality labels, such as EUR-ACE & RICS.

In France, ESTP Paris counts over 2 500 students, a network of 45 000 Alumni and trains **the biggest students flow for the construction industry** and has made its reputation as THE "Grande Ecole" for professionals in this area: construction, planning & development, project and facilities management, sustainable buildings & infrastructures, design, rehabilitation, maintenance, real estate, topography-surveying, materials, energy efficiency, building information modelling, etc.

The main characteristics of ESTP Paris are its **close links to industry**, its strong **international relations** (85 partner universities in 37 countries), its **equal opportunities policy** and the emphasis put on **sustainable development**.

CONTACT

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