

## Engineering degree Nuclear Civil Engineering

### SUMMARY

The Nuclear Civil Engineering programme is 3rd year graduate specialization through the ESTP engineering school. This programme is taught in English and allows students to acquire the knowledge and skills necessary to meet the critical civil engineering challenges related to nuclear facilities: design of new generation plants, operation and dismantling of existing facilities. It focuses on safety and waste management according to the demanding criteria of sustainable development.

The high level of scientific courses and the acquisition of knowledge in advanced technology lead both to doctoral training and to positions of responsibility in industry, in France and abroad. The courses are delivered in various forms: lectures, projects, tutorials, practical work, visits, etc.

French companies are among the world leaders in civil engineering and nuclear energy; ESTP Paris trains the largest number of graduates in France in the field of construction and development. The union of these two excellences, professional and academic, is at the origin of this high level training in nuclear civil engineering.

### SKILLS

- Master the design and construction standards of civil engineering
- Push back the boundaries of the usual methods of design by checking or designing methods to take into account new types of external aggressions
- Rethink construction methods in order to evolve practices and control margins at the design stage. Bring significant gains in manufacturing time while increasing the level of safety
- Master advanced scientific tools leading to a PhD.

### CAREER

- Civil engineering researcher
- Design engineer
- Methods engineer
- Engineer-researcher in the field of nuclear power plants and complex engineering structures: new buildings, maintenance, dismantling, waste management, safety, etc.

### INSTITUTION(S)

#### ESTP

#### DURATION OF STUDY

One-year specialization

#### LANGUAGE



#### TRAINING LOCATION

Cachan



#### MODE OF STUDY

- Full time programme

#### CONTACTS

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#### WEB

www.estp.fr  
www.campusbour  
ses.campusfrance  
.org

### PREREQUISITES

- Bachelor degree in civil engineering in 3 or 3.5 years (equivalent to a minimum of 180 ECTS);
- Bachelor or master degree in other fields such as engineering, mathematics, physics, or mechanical engineering (equivalent to a minimum of 180 ECTS);
- Level in English: minimum B1 in the Common European Framework of Reference for Languages;
- Level in French: no particular requirement for admission. Depending on the level, optional intensive session of French as a Foreign language in July or August before the start of the programme, and compulsory weekly classes during the master programme.