

Field of study **Sciences and engineering**

Training available in

Apprenticeship

Initial training

Continuing education

Recognition of prior learning

#### How to apply :

<https://www.univ-gustave-eiffel.fr/en/formation/applications-and-enrolment/applications>

#### Course venue :

Campus Marne la Vallée - Noisy le Grand - Bâtiment Alexandra-  
David-Néel 2 allée du promontoire 93160 Noisy-le-Grand  
Campus Marne la Vallée - Noisy le Grand (L3)

#### Calendar :

Start of May to late August for work placements - Start of  
September to late August for work-study programmes

#### Contacts :

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#### More information :

For further details :

<https://www.univ-gustave-eiffel.fr/international/etudiants-internationaux>

Service Information,

Orientation et Insertion Professionnelle (SIO-IP) :

[sio@univ-eiffel.fr](mailto:sio@univ-eiffel.fr) / Tel : +33 1 60 95 76 76



Lycée Simone Veil - Noisiel

## Bachelor's degree Engineering Sciences Organisational Engineering



Institut Francilien des Sciences Appliquées (IFSA)

Bachelor's degree L2 L3

#### TO GET THERE

Second year: have completed a first-and second-year Licence degree in science and technology or an equivalent diploma (advanced vocational training certificate or technical university diploma), subject to conditions (field, motivation), or after a preparatory course, etc.

Third year: internal recruitment (L2 Université Gustave Eiffel), external recruitment (Campus France, IUT, other French universities). Graduates with a technical university diploma can also enrol in third year.

High school diploma with science (S) specialisation or science and technology for industry and sustainable development- professional high school diploma -advanced vocational training certificate in industrial product design; technical engineering assistance; "Etudes en France" programme; mechanics and industrial automation - technical university diploma in mechanical engineering and production; quality, industrial logistics and organisation; thermal engineering and energy - Licence in the fields of science and technology; geography; urbanism.

#### ACQUIRED SKILLS

Specialised study: students can specialise from semester three; in semester four, they have a choice of three third-year Organisational Engineering programmes: 3 options: Industrial Project Management Assistance; Quality, Safety and the Environment; Energy Efficiency in HVAC Engineering.

Analysing a technical problem: clear presentation of the problem analysis and methods chosen to solve it.

Mastery of mathematical and physical tools related to the field of engineering sciences (adapted to each of the three programmes).

Working from specifications, extracting information from technical documents, handlings units and orders of magnitude, using a variety of digital media

Selecting and using a suitable program: practical work designed to enable students to master simulation programs - teamwork (in pairs / groups of three for practical work, multidisciplinary projects, oral assessments, professional culture)

Techniques of expression and oral communication

Managing a project schedule, working independently, different modes of evaluation

English (level-based groups during the Licence, TOEIC during the Master's, use of business English).

Work placement (initial training) or work-study programme

#### YOUR FUTURE CAREER

2% of graduates from the Engineering Sciences Licence go straight into the world of work. The other graduates pursue further study in the same field (Master's degrees, engineering schools) and then work in a company (large groups or SMEs), many of which correspond to the specialisations of the three L3 programmes. More specifically, the Organisational Engineering programme gives students access to the Master's in Quality, Safety and the Environment at Université Gustave Eiffel.

#### BENEFITS OF THE PROGRAM

Support for students on Université Gustave Eiffel programmes - a pedagogical secretariat for each programme and an administrative manager. - student workshops with the BAIP (Professional Integration Assistance Bureau) on writing covering letters and CVs, applying for internships and preparing for interviews. - library workshops on documentary research on different media (paper, digital) and in different places (library, digital campus, internet, external library, etc.). These workshops are held in addition to the communication units taught in L3. In L1: 2 professional speakers. In L2: 13 professional speakers. In L3: 29 professional speakers spread across the different options.

More information



# PROGRAM

## SEMESTER 3

**Mathématiques pour les SPI** (ECTS:6)  
**Mécaniques des fluides** (ECTS:3)  
**Mécaniques des solides** (ECTS:6)  
**Thermodynamique** (ECTS:3)  
**Communication** (ECTS:3)  
**Economie d'entreprise** (ECTS:3)  
**Gestion de production** (ECTS:3)  
**Anglais** (ECTS:3)

## SEMESTER 4

**Statistiques pour les SPI** (ECTS:3)  
**Dessin Technique** (ECTS:3)  
**Résistance des matériaux** (ECTS:3)  
**Informatique** (ECTS:5)  
**Ingénierie et enjeux environnementaux** (ECTS:3)  
**Propriétés des matériaux et structures** (ECTS:3)  
**Conception des systèmes 1** (ECTS:5)  
**Qualité Sécurité Environnement en entreprise** (ECTS:5)

## SEMESTER 5

**UE Science pour l'Ingénieur 1** (ECTS:10)  
- Culture scientifique appliquée 1  
- Concepts QSE-DD  
- Organisation des entreprises  
- Outils Mathématiques

**UE Anglais** (ECTS:4)  
**UE Communication 1** (ECTS:4)  
- Expression - communication  
- Informatique - bureautique

**UE Qualité Sécurité Environnement - Développement Durable (QSEDD)** (ECTS:12)  
- Gestion de production et analyse des systèmes industriels de production  
- Description des processus industriels  
- Management QSE-DD 1  
- Outils de la Qualité 1

**UE Assitant Management de Projet Industriel (AMPI)** (ECTS:12)  
- Etude et conception des systèmes du génie électrique  
- Etude et dimensionnement des systèmes mécaniques  
- Bases de la CAO

**UE Efficacité Energétique en Génie Climatique (2EGC)** (ECTS:12)  
- Réglementation thermique  
- Climatisation et récupérateurs de chaleur  
- Production de chaleur haute performance  
- Optimisation et distribution des fluides

## SEMESTER 6

**UE Sciences pour l'Ingénieur 2** (ECTS:6)  
- Culture scientifique appliquée 2  
- Ingénierie collaborative  
- Analyse numérique des données

**UE Stage** (ECTS:6)  
**UE Communication 2** (ECTS:6)  
- Economie d'entreprise  
- Techniques de communication

**UE Projet Professionnel encadré** (ECTS:6)  
**UE Qualité Sécurité Environnement - Développement Durable (QSE-DD)** (ECTS:6)  
- Outils numériques pour la Qualité - MSP  
- Management QSE-DD 2  
- Outils de la Qualité 2

**UE Assitant Management de Projet Industriel (AMPI)** (ECTS:6)  
- Marketing / Droit  
- CAO et outils de simulation

**UE Automatismes et Système de régulation (AMPI)** (ECTS:2)  
**UE Efficacité Energétique en Génie Climatique (2EGC)** (ECTS:6)  
- Régulation et gestion de l'énergie  
- Systèmes Frigorifiques optimisés  
- Gestion de l'eau dans le bâtiment  
- Audit énergétique d'un bâtiment