ENSCMu

School of Chemical Engineering

An engineering school of the Université de Haute-Alsace

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

UNIVERSITÉ HAUTE-ALSACE

2024 - 2025

67% women

33% men

83%* employed within 2 months after graduation

14%* further studies (marketing specialisation, business management, thesis…)

31 post-baccalaureate students at ENSCMu

286 students enrolled in the engineering degree course

13% of 3rd year students on academic exchanges

73 engineering graduates in 2023

21 students in vocational training programme

18 apprentices

\+ Accreditation by the 'Commission des Titres d'Ingénieurs' until 2028
ISO 9001-2015 quality certification for chemical engineer training
Internal school of UHA, ISO 50001 certified (energy management)

*data on graduates 2023

CHIMIE MULHOUSE : AT THE HEART OF TOMORROW'S CHALLENGES

France's first chemistry school
Founded over 200 years ago, in 1822, at the instigation of the textile manufacturers

Polyvalent training in chemistry for a wide range of careers
TD (guided work), TP (Practical work) in chemistry analytics, organic, inorganics and physics, formulation, materials, polymers, safety, sustainable development, etc

Business and research at the heart of training
Lecturers from the industry, projects and internships within companies and in laboratories, double masters degree, etc

Individual support in building a career plan
With company executives and the platform My Job Glasses

Specific lessons
Lean operateur, entrepreneurship, cultural awareness, corporate cybersecurity, etc

Integrated personal project management training
Choice of subject in 1st year and chemistry related 2nd year

International mobility for all students
Cross-border region with Germany and Switzerland, double degrees, academic exchanges, internships abroad

Excellent quality of life and a wealth of associations
Dynamic student life, recently renovated premises and facilities, with a campus located in a green environment close to the city and all university services

ENGINEERING DEGREE

1st AND 2nd YEAR

Lectures, Courses (about 320 h per year)
and Practical work (about 300 h per year, 2 days per week)

1st and 2nd year: analytical, inorganic, macromolecular, organic and physical chemistry, formulation, mathematics and IT, engineering sciences, process engineering, reaction safety, etc.

In 2nd year: a choice of courses in organic chemistry, materials or engineering sciences (about 100 hours).

2 languages
Human, social and economic sciences

English first language, possible choice of second language (mandatory).

Accounting, sustainable development, safety and fire extinguisher training, project management, cultural awareness, scientific popularisation, quality training, entrepreneurship with the 'Pépite' network, sustainability workshops ('La Fresque du Climat', '2tonnes').

Engineering training

Team project management on a subject of their choice in 1st year and chemistry related projects in 2nd year (science workshops in schools, innovation competitions, projects with laboratories or companies, community involvement, etc).

Building career plans and self-knowledge with the 'My Job Glasses' platform.

Internships in France or abroad

Work placement in 1st year (6 to 12 weeks from June to August).
Research internship in 2nd year (8 to 18 weeks from May to August).
Opportunity to take a gap year between 2nd and 3rd year.

Typical week
Practical work:
2 days
Courses
and Lectures:
2,5 days
0,5 days personal projects, meetings, visits, sports, etc

3rd YEAR

Engineering sciences

Lean operator, industrial projects and case studies, industrial simulation processes, creating a fictitious company.

Language
Human, economic and social sciences

English.

Communication, corporate cybersecurity, labour law (workers rights), management, international marketing, job interview simulations, technological watch.

Choice of major (200 h)

- Organic, bioorganic and therapeutic chemistry
- Formulation and cosmetology
- Materials and polymers
- Safety and sustainable development

End of study internship in France or abroad

Engineering internship in 2nd semester (24 to 26 weeks, starting in February).

68% satisfaction rate given to their training by engineering students

(2023-24 evaluation carried out as part of the quality approach)

DOUBLE DIPLOMA BACHELORS AND MASTERS DEGREE

Opportunity to study for a UHA bachelor's or master's degree:

– 3rd year of Bachelor's in chemistry (in parallel with 1st year).

– 1st year of Master's in organic chemistry / formulation, or in materials science and engineering (in parallel with 3rd year).

CAREER DIVERSITY

The versatile practical training in chemistry enables ENSCMu graduates to rapidly become ready to work, access a wide choice of professions and business sectors, and develop their careers.

Jobs*

60% Research, development, innovation, patents

14% Quality, safety, regulations, environment

13% Studies, other services

7% Production

3% Project management

3% Sustainable development, CSR (Corporate Social Responsibility))

* survey of 2023 graduates after graduation

Activity sectors*

36% Chemical industry

15% Pharmaceutical industry

7% Research and development

7% Water production, distribution, waste treatment.

7% Para chemical industry

14% Other industries (automobile, building, metalwork)

14% Other specialised activities

Employed graduates after six months:
- On average: **less than one month** to find the first job;
- An average annual salary of **€38073** (gross, excluding bonuses);
- **18 %** based abroad.

APPRENTICE TRAINING

3 year pathway to becoming a chemical engineer

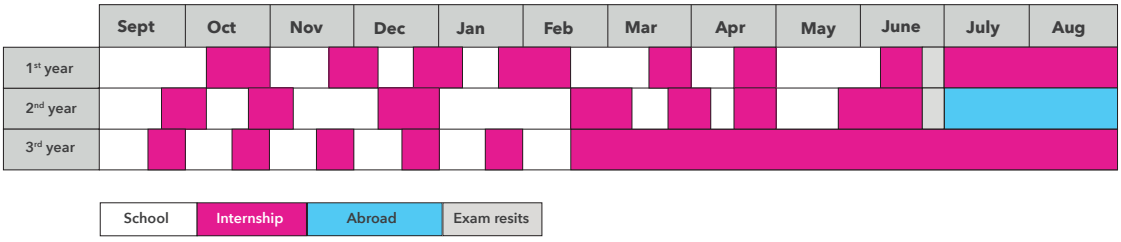
The chemical engineer apprenticeship leads to the same diploma as the traditional student. Offered in collaboration with an Apprentice training center.

Advantages for the students

A curriculum that facilitates professional integration and provides significant practical experience at no tuition cost.

15-20 students integrated into the classes. Nine weeks of compulsory mobility.

Work-study calendar



PERSONALISED SUPPORT

All applicants to our training programme follow a selection process that includes a review of their academic record, an interview and a programme to help them find a contract (MOOC, help with writing CV and cover letters, interview preparation, etc).

ADMISSIONS FROM ABROAD

equivalent to the 1st and 2nd years of Bachelor's

2 years of preparatory course

Directly after the French Baccalauréat
Students can join the integrated cycle of ENSCMu through the INSA group (admission.groupe-insa.fr)
→ **selection on the basis of academic record and an individual interview**

A two-year preparatory course Chem.I.St through the Gay-Lussac Federation
the network of 20 French chemistry schools (www.20ecolesdechimie.com)
→ **competitive entry**

A two-year preparatory course in France after the French Baccalauréat
Students can join ENSCMu after two years of first cycle studies in a French high school, after two or three years of Bachelor's degree, etc.

equivalent to the 3rd year of Bachelor's

1st year of engineering course

Entry through the CEF procedure
after at least two years of higher education (Campus France on www.campusfrance.org)
→ **selection on the basis of academic record and an individual interview**

Entry after cross-border programmes
equivalent to two years of higher education
→ **selection on the basis of academic record and an individual interview**

Entry with a European diploma
equivalent to two years of higher education
→ **selection on the basis of academic record and an individual interview**

equivalent to the 1st year of Master's

2nd year of engineering course

Entry through the CEF procedure
after at least four years of higher education
(Campus France on
www.campusfrance.org)
→ **selection on the basis of academic record and an individual interview**

Entry in dual-degree programmes
→ **selection on the basis of academic record and an individual interview**

Entry with a European diploma
equivalent to four years of higher education
→ **selection on the basis of academic record and an individual interview**

equivalent to the 2nd year of Master's

3rd year of engineering course

Entry with international Degrees
Erasmus+, FITEC, etc.
→ **selection according to the agreement with partner university**

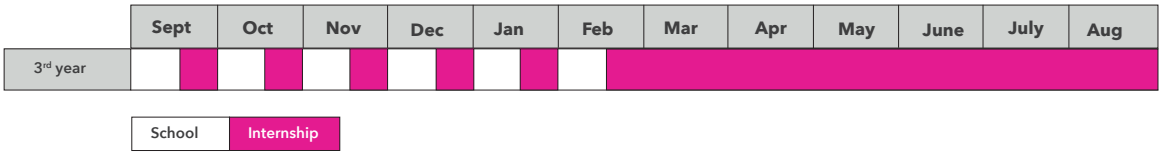
VOCATIONAL TRAINING PROGRAMME

3 year course accessible regardless of the chosen major

The vocational training programme lasts one academic year:

– From September to January: 12 weeks at university, 9 weeks in the company (university holidays included), 1 week of exams;

– From February to August: Full time work in a company.



All optional courses and most core subjects taken during school hours in the first semester (375 hours in total).

Interested students receive help from the university to find a company (excluding public sector).

The course leads to the same diploma as the conventional course.

Advantages for the student

Significant professional experience in parallel with courses.

Pedagogical support by a mentor teacher and support from company tutor.

Professional project consolidation.

Salary: 80% of the minimum wage and tuition paid by the company.

Potential hiring at the end of contract.

NETWORK OPPORTUNITIES

Alsace Tech, the network of 14 grandes écoles in Alsace, organises

– The largest internship and recruitment forum in the Grand Est region.
– An innovative company competition.
– A Franco-German summer school.
– A dedicated programme to AI (conferences, spring school and training).
– A Masters in Business Administration (MBA) at the Strasbourg Business school, etc.

The Fédération Gay-Lussac (20 chemistry and chemical engineering schools in France) offers

– An integrated CPI preparatory cycle.
– Option of doing the 3rd year in another school in the network.
– Access to thesis and job vacancies advertised within the network.

NTERNATIONAL MOBILITY

The Mulhouse school of chemistry requires students to spend at least 16 weeks abroad during their course in order to validate their engineering degree.

Offers a range of mobility opportunities, including academic exchanges in nearly 40 partner universities, gap year placements and work placements.

Double diploma

– Master of science in chemistry at Toledo University (USA).

– DESS in cosmetology at Quebec University in Chicoutimi (Canada).

– Masters degree in chemistry at Sherbrooke University (Canada).

Academic exchanges in 3rd year - one or more semesters

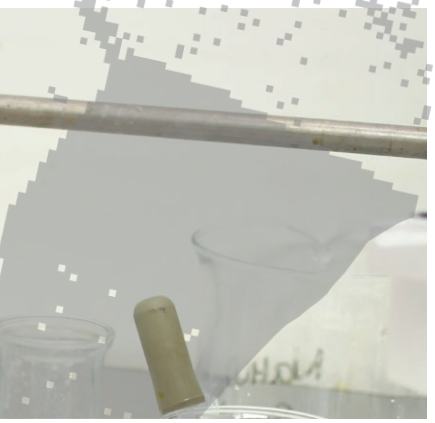
– As part of the Erasmus+ programme in Europe (Belgium, Bulgaria, Czech Republic, Germany, Netherlands, Romania, Slovakia, Spain, Turkey).

– Under bilateral agreements throughout the rest of the world (Canada, Japan, Scotland, USA).

Study trips, courses and cross-disciplinary training

– Within the Eucor network - the European Campus (5 universities in the upper Rhine area, Germany, France and Switzerland).

– Within the EPICUR alliance - European Partnership for an Innovative Campus Unifying Region (First European university to bring together 8 partner universities in Austria, France, Germany, Greece, Netherlands and Poland).



FITEC Programme (France Ingénieurs TEChnologie)

With the guidance of the 'Conference des Directeurs des Écoles Françaises d'ingénieurs' (CDEFI), ENSCMu takes part in exchange programmes with South American universities.

These enable ENSCMu students to spend their first semester of their 3rd year in one of the partner universities. Current agreements exist with Argentina and Brazil in the fields of green chemistry and materials.

This programme also enables foreign students to study at one of the French partner schools.

Courses

Mobility can also take place during work placements in companies or research laboratories:

– Work placement in 1st year,

– Research placement in 2nd year,

– Engineering internship in 3rd year.

Gap year

Engineering students who would like to take a break from studying can do so between the 2nd and 3rd years of the engineering degree in the form of a gap year. If this year is spent in a company abroad, the mobility can be taken into account in the curriculum.

FURTHER STUDIES

– Doctoral thesis (12% of 2023 graduates).

– Master of Business Administration (MBA) Alsace Tech management engineer at the Strasbourg School of Management. A special programme for Alsace Tech graduates, of which ENSCMu is a member.

– Mastère spécialisé NRBCE, a programme for professionnals and graduated engineers specialised in risk management and NRCBE threats (Nuclear, Radioactive, Biological, Chemical and Explosive) at ENSCMu in collaboration with SERFA, the university's continuing education department.

NEW IN 2025 : 3RD YEAR COURSE IN ENGLISH

The new English-language **Chemistry and Beyond** 3rd year course focuses on innovation, sustainable development and entrepreneurship. Delivered entirely in English, there are 20 places and leads to the validation of 30 ECTS credits. Primarily aimed at international students who have completed a Master 1 in chemistry and have a B2 level in English, it is also open to engineering students, subject to availability.

These courses last 6 months and are built around 4 modules:

2 chemistry modules

– Bioorganic chemistry,

– Materials and Polymers.

1 Transitions et innovations module

1 Entrepreneurship module

Theoretical lessons and a student project to be carried out throughout the semester, with the possibility of Pépite Etena accreditation (member of the french network Pépite for student entrepreuneurship).

1 language module

French as a foreign language for non-French speakers
and English for French speakers.

PROXIMITY TO RESEARCH AND BUSINESS

ENSCMu cooperates with 4 research laboratories on the campus

– The Mulhouse Materials Science Institute (IS2M).
– Risk management and Environment Laboratory (LGRE).
– Molecular innovation and Applications Laboratory (LIMA).
– Photochemistry and Macromolecular Engineering Laboratory (LPIM).

The professional world is heavily involved in the course

– Lecturers from the socio economic world.
– Conferences and meetings with companies and professionals, graduates from ENSCMu.
– Numerous partner companies offer internships, professionalisation contracts and apprenticeships.
– Meetings with company experts via the 'My Job Glasses' platform to help build a career plan.
– Horizons Alsace Chimie, a student association working with companies.

During the 3rd year, ratings of '**excellent**' and '**good**' accounted for more than **96%** of assessments given by the supervisors in terms of behaviour, professional skills, and intellectual aptitudes of the students welcomed into their company.*

* analysis of evaluation forms for end-of-study placements 2023-24

A SPECIAL CROSS-BORDER ENVIRONMENT

Mulhouse is located 30 km from Switzerland and Germany, in the heart of a major international industrial cluster (BASF, Bayer, Borealis, etc).

This context offers ENSCMu students numerous opportunities for internships and jobs, as well as an enriching intercultural environment in the heart of Europe and Europe's leading university.

As part of the Grand Est region, Alsace gives you the opportunity to discover the cultural and gastronomic charms, the Vosges mountains, the Black Forest, the Jura and the Swiss Alps.

Mulhouse is famous for its technical museums (automobile, electropolis, train, fabric printing, etc) and also owes the cultural wealth to venues such as La Filature, scène nationale, to which students have access to special deals thanks to the culture card.

+ A GREEN ENVIRONMENT, ACCESSIBLE CAMPUS OFFERING A FULL RANGE OF FACILITIES

ENSCMu is located at the Illberg campus of the UHA, which has ISO 50001 certification. Set in 25 hectares of lush greenery, students benefit from the modern and functional infrastructure.

Students also have access to campus facilities (accommodation and catering, preventive medicine, sports facilities, cross-border skills centre, learning centre, language learning, etc)

The school is located 10 minutes from the city centre and train station by tram, bus or bicycle, and 30 minutes by car from Basel-Mulhouse international airport.

DYNAMIC STUDENT LIFE

There is life after school in Mulhouse, thanks to the active and supportive associations and clubs.

Students' involvement in the school life and the responsibilities in associations are valued during their training as part of their 1st year personal projects. They develop skills that are useful for engineers, such as project management, teamwork, meeting the expectations of external partners and presenting results. There are around a dozen clubs and associations (sports, music, arts, cheerleading, humanitarian, aid, environment, heritage, events, cosmetology...) run by the student office.

They have access to dedicated facilities (an equipped club room, computer room and offices, access to the school's meeting rooms and laboratory rooms for experiments, etc) and financial resources allocated by the school.

– For more information: www.bde.enscmu.uha.fr

31 chemistry projects carried out by 2nd year students in partnership with research laboratories, companies, local authorities, and educational establishments, with prizes awarded to the best projects.

DIPLÔME D'INGÉNIEUR CONTRÔLÉ PAR L'ÉTAT

Photos : Grégory Tachet, Raoul Schweitzer, B.Grunewald - Forum Alsace Tech & Université 2021, ENSCMu - Graphisme : Céline Emonet - Do not throw on public roads

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