Internships and student-company projects at the ECPM

An international industry-oriented engineering school

The mission of the European School of Chemistry, Polymers and Materials Science (ECPM) is to train trilingual chemical engineers with a solid technological and scientific background in the areas of health and environmental chemistry and emerging materials for energy and sustainable development. In collaboration with the Ecole supérieure de biotechnologie de Strasbourg, the ECPM also trains engineers at the interface between chemistry and biotechnology.

The teaching is structured around the following skills areas: analytical sciences, molecular chemistry, polymer engineering, functional materials and nanosciences, chemistry and biotechnology.

Major features of the School:

- **Trilingualism:** scientific coursework in French, English and German;
- 2 compulsory foreign languages; at least one internship abroad
- **Laboratory sessions represent 43% of the programme**
- **A programme that draws on high-level research, development and innovation**
- **International industry-oriented internships and projects**

The nature and the calendar of our student company projects and internships have been conceived to provide a solution to all your problems from the most theoretical to the most concrete.

Student company projects

**Industrial innovation as the keystone of our programme**

**Industrial Project (4th year of studies)**

Teams of 7 to 8 students, including a project manager, will analyse your industrial issue, draft specifications, search and select the most suitable concepts, study their technical and economic feasibility and draw a project outline.

- **Time period:** from October to end of March
- **Duration:** 500 to 600 work hours/team, including 7 collaborative work sessions
- **Mentoring:** technical by your team, scientific by a university professor/researcher and managerial by professionals
- **Validated by:** written report and oral presentation

**Microproject (5th year of studies)**

Managed by groups of 2 to 3 students, microprojects introduce students from several specializations of the engineering cycle to technical and scientific challenges in the form of bibliographical research. The student engineers monitor technological developments, analyse patents, benchmark innovative processes and draw research mappings on a scientific subject to demonstrate the unexplored, explored or even developed alternatives.

- **Time period:** mid-September to mid-January
- **Duration:** 120 to 160 work hours/team, including several collaborative work sessions
- **Mentoring:** technical by your team, scientific by a university professor/researcher and managerial by professionals
- **Validated by:** written report and oral presentation
The engineering student at the very heart of the company

Internships

Technician internship at the end of the 3rd year of studies
Manual or chemical technician tasks to be performed in industry, in a production or quality control department or a laboratory.

Engineer-level internship at the end of the 4th year of studies
Technical or technological study to be completed under the guidance of a tutor in industry.

End-of-studies internship: 2nd semester of the 5th year of studies
Technological or scientific problem solving in a research and development laboratory. The internship will be validated by a final thesis. Can be the extension of a microproject.

Sandwich year

The students have the opportunity to do a sandwich year between the 4th and the 5th year of studies from the beginning of September to the end of August of the following year. The project has to be approved by the ECPM. The sandwich year can be organised in one or more professional experiences (for example via a fixed-term contract). Even though the experiences are not recognised by the school, the student remains enrolled at school and can benefit, if requested, from a pedagogical accompaniment by a teacher.

---

Student company projects, internships and sandwich year: calendar

<table>
<thead>
<tr>
<th>Year of Studies</th>
<th>Project Description</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>3rd year of studies</td>
<td>Technician practical internship</td>
<td>4 weeks minimum, July - August</td>
</tr>
<tr>
<td>4th year of studies</td>
<td>Industrial project</td>
<td>500 to 600 work hours / team, October - end of March</td>
</tr>
<tr>
<td>Sandwich year (outside curriculum)</td>
<td></td>
<td>12 months maximum from September - August of the following year</td>
</tr>
<tr>
<td>5th year of studies</td>
<td>Microproject</td>
<td>120 to 180 work hours / team, September - mid-January</td>
</tr>
<tr>
<td></td>
<td>End-of-studies internship</td>
<td>5 months minimum, February - August</td>
</tr>
</tbody>
</table>