

Guidelines for the industrial internship in the Chemical Engineering B.Sc. and M.Sc. degree programs

Status: 17.06.2025

The aim of the industrial internship is to gain subject-related knowledge and practical experience as well as insights into everyday working life in preparation for starting a career.

The practical activity should be used in particular to:

- get to know engineering tasks in research and development as well as production, quality assurance and technical sales,
- gain an insight into modern processes and facilities for production and development in the chemical industry,
- get to know operating procedures and organizations in the industry
- and to learn about the social structure in companies.

Academic supervision: The responsible person in the industrial company and the examination board. Administrative support: Student advisory service Chemical Engineering.

Procedure for the industrial internship: Summary

1. **Duration:** students decide on the duration of their internship.
2. **Companies:** students look for an internship placement independently and draw up a work plan.
3. **Approval procedure:** Students apply to the student advisory service for approval of their internship (form).
4. **Recognition:** Students write an internship report, receive an internship certificate from the company and submit the application for recognition to the student advisory service.

1. Duration

Industrial internships are usually carried out part-time and parallel to other courses.

B.Sc.: 7 ECTS*. This corresponds to a workload of 210 hours, i.e. usually 3 months part-time 40% (16 hours per week).

M.Sc.: 5 ECTS*. This corresponds to 150 hours, i.e. usually 3 months part-time 30% (12 hours per week).

*See the respective valid subject-specific study and examination regulations for the Bachelor's degree program in Chemical Engineering and the English-language Master's degree program in Chemical Engineering at the Faculty of Natural Sciences at the University of Ulm.

2. Companies for the practical activity and type of practical activity

Companies: For the practical instruction of university interns, industrial companies - also abroad - are primarily considered, where an insight into modern production processes and working methods in industry and business is offered. Interns apply directly to a suitable company and agree to a work plan in accordance with these internship guidelines.

Type: Industrial practice includes chemical engineering-related activities in the chemical industry or closely related branches of industry. Typical areas of activity are:

- Chemical production, environmental protection
- Control laboratory, measurement and control technology
- Plant planning, construction
- Apparatus production, maintenance
- Quality assurance

The industrial internship **cannot** be completed at research institutes such as Helmholtz or Fraunhofer Institutes or the ZSW. Administrative activities and the creation of manuals **cannot** be recognized. Activities classified as “confidential” by the companies are generally **not** recognized.

3. Approval procedure before the start of the internship

The application for approval of the internship must be submitted to the student advisory service before the start of the internship. It must contain the following documents

- completed and signed application form (name of the industrial company, name of the supervisor in the industrial company, topic, period)
- work plan

4. Recognition after the end of the internship

For recognition of the internship, the application form, an internship report and an internship certificate including details of the scope of work (weekly working hours and duration) must be submitted to the student advisory service.

The internship report should not exceed 15 pages. **The report must describe the relationship to the degree program**, the theoretical background of the activities carried out, a description of the activities and a critical discussion of the results. A description of the company should be kept to a minimum.

The certificate may be written in the respective national language; however, if this is not German or English, a certified translation must be submitted.

After sending it to the student advisory service, the examiner will record the internship as having been passed.