Information on the
Pre-study internship
in the
Bachelor programmes

Automotive Systems Engineering (ASE-B),
Electrical Systems Engineering (ESE-B),
Maschinenbau (MB-B),
Mechatronik und Robotik (MR-B)

Applies to all first-semester students starting in winter semester
2019/20 or later

Applicants without any relevant practical experience are required to do a pre-study internship and provide a corresponding proof for their matriculation.

In case the pre-study internship cannot be completed before the start of studies, it can be done until the start of the fourth semester upon request.

Through the pre-study internship, the applicants should make themselves familiar with the manual technical methods of the study field.

Applicants for the study programme “Automotive Systems Engineering”, Mechatronics and Robotics” and “Mechanical Engineering” have to prove a pre-study internship of at least 60 workdays. Applicants for the study programme “Electrical Systems Engineering” have to prove a pre-study internship of at least 40 workdays. The goal of the pre-study internship is to get to know the industrial world of work, i.e. at least 30 workdays should be spent in an industrial firm.

The successful completion of the pre-study internship has to be proven by a qualified internship certificate of the company. This document must include: the number of workdays, days of absence and holidays, a list of the internship tasks and an assessment of the performance. A copy of this certificate must be submitted to the HHN Registration Office.

Applicants with a related prior apprenticeship do not require a pre-study internship.
The internship offices of the study programmes are in charge of the recognition of the pre-study internships.

**Automotive Systems Engineering (ASE-B)**
The pre-study internship should teach broad basic knowledge and skills in automotive mechanics and electronics. This includes basic mechanical and electronic manufacturing methods as well as skills in measuring and testing. As far as possible, additional skills in materials and technical drawing should be acquired.

**Electrical Systems Engineering (ESE-B)**
The pre-study internship should teach broad basic knowledge and skills in mechanics and electronics. This includes basic mechanical and electronic manufacturing methods as well as skills in measuring and testing.

**Mechanical Engineering (MB-B)**
The pre-study internship should teach basic knowledge and skills, such as: marking, sawing, filing, cutting, folding, bending, flanging, trueing, drilling, thread mouldings, soldering, gluing, measuring and testing. Additional knowledge about materials and technical drawings are desirable.

**Mechatronics and Robotics (MR-B)**
The pre-study internship should teach broad basic skills and knowledge in the production of mechatronic components. This includes primary shaping, metal-cutting, shaping, joining, separating and coating manufacturing methods and also measuring and testing techniques. As far as possible, additional skills in materials and technical drawing should be acquired.