

Information sheet on the industrial internship for Materials Scientists



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Bachelor of Science course of study in Materials Science

Attention: Evidence of an industrial internship is also required from external applicants for the Master of Science Course in Materials Science and must be approved before registration for the Master Thesis.

A Materials Science-related industrial internship is a **prerequisite** for the Bachelor of Science course of study. Meeting this requirement may be **deferred** until registration for the Bachelor thesis. The following passage is copied (and translated into English) from the study regulations for the Bachelor of Science course of study:

As another requirement for being accepted as a student in the Bachelor course of study in Materials Science, the student has to prove his/her participation in an industrial internship with a duration of at least 6 weeks (this may also be a corresponding apprenticeship) by providing an internship report. This internship may also be attended while being a student of Materials Science already. It must be finished including the internship report, though, before starting the Bachelor thesis. Alternatively, an equivalent internship abroad or a technical or scientific project may be attended. In discussions with their mentors, the students should be given advice regarding the subject of the internship. The examination board decides if the internship report is accepted.

Before starting with the internship, the students should, informally but in writing, request acceptance of the chosen internship from the examination office. They will receive written notice on the acceptance of the internship as well as, later on, on completion of the internship. A corresponding apprenticeship may replace the internship, a job as a working student or on a production line, however, does not. The examination board or its representative decides if the internship is accepted.

Duration: At least 6 weeks with usual working hours.

Internship report: After finishing the internship, the student has to write a short report on the conducted work. It should be about 10 pages (DIN A4) in length. If the work conducted in the context of the internship is confidential and therefore an ordinary report cannot be written, it is absolutely necessary to state this already together with the request for the acceptance of the internship, i.e., before starting with the internship.

Assessment: The assessment of the internship will be carried out by the chair of the examination board or an assigned professor. A certificate on the completed internship issued by the provider of the traineeship (employer) plus the internship report have to be submitted to the chair of the examination board, who decides if the internship was successfully completed, and who also reports on its decision to the student and to the Dean's office (examination office). This decision needs to be available when the student registers for the Bachelor thesis. The internship reports are stored in the Dean's Office.

Companies: Particularly those companies are suggested that are active in materials engineering. Examples are: Merck (Darmstadt), Evonik and Heraeus (Hanau), Schott (Mainz), ASEA Brown Boveri (Mannheim). But also other enterprises in Germany or abroad may be chosen.

Research Institutes: Examples are: Gesellschaft für Schwerionenforschung (GSI), Fraunhofer Institutes (e.g. the Fraunhofer-Institute for Structural Durability and System Reliability in Darmstadt) and Max Planck institutes.