

Internship at the Production Technology Department

Every semester **GMI** gives two students from Germany the chance to carry out their 6 months **Praxissemester**, as GMI is a centre for German technology following the “learning by doing” strategy. Students are welcomed at the Department of **Production Technology** in the sections of

- **Tool and Die Technology**
- **Mould Technology**
- **Product Design and Manufacturing**
- **CNC Precision Technology.**

Who we are searching for:

Preferably we are looking for practical students from

- **Maschinenbau**
- **Produktions- und Fertigungstechnik**

who are fluent in English, able to work in teams, communicative, independent working and interested in the cultural experience.

What we offer:

You will have the possibility to utilise your knowledge in an industrial based environment and the opportunity to develop your own project at the respective sections. In consideration of your study programme in Germany and in close affiliation with your GMI supervisor, you are given the chance to carry out your project from the phase of planning, to constructing, testing and finally presenting. As GMI is a life-long-learning institution we highly appreciate your ideas, suggestions and expertise. You are also welcomed to join any technical or language class as well as be a tutor for our students.

Practical students have free accommodation on campus and receive a monthly compensation of RM500.



Sections in which you can do your internship

Tool & Die Technology Section

The Diploma Programme in Production Technology (TOOL and Die Technology) focuses on aspects of metal stamping process and machine tools while using CNC machining and CAD/CAM. It equips students with fundamental knowledge on machining, blueprint reading, theoretical and practical knowledge in stamping, die design and development as well as maintenance and quality control.

Practical students are given a freedom to select their product design and will undergo the entire development process of the stamping tool from the product selection till the development of detail drawing for tooling fabrication.

Prior to the project work the practical students will be trained on CAD, analysis software for all kinds of machine tools, required to start their project.

Mould Technology Section

In the Diploma Programme of Production Technology (Mould Technology) the main study elements are plastic injection process and machine tools. Concentration is on conventional and CNC machining, mould design with CAD suites and CAM for programming and CNC machining.

In terms of technology, mould and die indicate similarities: consequently approach taken is applicable for both sections. Beside specialized skills in machine tools and design software, practical students will experience the development process of plastic injection moulding from plastic product design, analysis, and purposes. Practical students are able to extend their experiences in fabricating the injection moulding-mould.

Product Design & Manufacturing Section

The Diploma in Product Design & Manufacturing exposes the students to design concepts, advanced manufacturing techniques as well as the presentation of new product ideas. Students get trained on machining processes, CAD, rapid prototyping, ergonomics and product design for manufacture.

The practical students would focus on design and fabrication of prototypes by experiencing the modern sketching CAD software for concept development, 3D product design, product analysis using finite elements approach, production of detail drawings following the technical standard. Practical students experience the production of components using various kinds of machine tools and modern prototyping machine in developing their prototype.



CNC Precision Technology Section

The emphasis of the Diploma in CNC Precision Technology lies on precision machining. Students are able to master the application of 4 Axis CNC and 5 Axis CNC technologies, CAD/CAM as well as employ jigs and fixtures designed for automation CNC operations.

The focus in this section is towards producing precision components by utilizing CAD modeller for CAM purposes to generate NC code for machining. Practical students will experience more complex machining from 2 axes up to 5 axes. The design and fabrication of jigs and fixtures for machining and checking will be the specialized area to be explored.

For more information please contact:

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Please contact the International Office at your University of Applied Sciences for further information on PROMOS scholarships