Design Engineer

Job description

Design engineers prepare technical documentation (3D models, working and assembly drawings, installation, operating and maintenance instructions) for products for the machine-building, electronics and metalworking industries.

Using details and sketches provided by engineers and other specialists, design engineers produce models and drawings of individual components using the CAD system. These can be combined to form assemblies of layouts and equipment. Data are usually managed through a PLM system.

Design engineers also help in attempts to find appropriate approaches to solutions in the design phase, and provide assistance in putting theoretical concepts into practise.

They also prepare drawings with the necessary production details – e.g., precise dimensions, material specifications, surface finish, etc. This documentation is used to manufacture the components. Design engineers also create installation drawings of assemblies with parts lists, enabling the fitter to put the assemblies together. For this reason, design engineers work together with production personnel, and their training contains elements of production technology and installation techniques.

Last but not least, they also prepare the technical documentation for the operation and maintenance of products and draw up instructions and other documentation.

Design engineer training at REMP

- **Design engineer training is provided only at level E (advanced requirements)** and comprises the classic apprenticeship, which lasts four years. The focus is on the areas of „Mechanical equipment“ and „Systems and installations“.

- **Design engineer training** can also lead to a professional qualification. This opens up the way for admission to a technical college without an examination.

Requirements

You will need a good technical understanding and an interest in mechanical processes. Creativity and well-developed three-dimensional presentational abilities are pre-requisites. An aptitude for mathematics, geometry, technical drawing and physics is also important for a design engineer. You must also have perseverance and patience, and you should enjoy working with computers. It’s important to be able to work as part of a team, but you must be able to work reliably on your own as well. Your other strengths will include a sense of responsibility, a desire to learn and an enjoyment of your work.

Training locations

The training course is made up of several extended training units in Team Mechanical Engineering. Several obligatory external courses form part of the training. These include (among other things) practical work experience at Fritz Studer AG in Steffisburg. The course also includes training units in various departments.

Prospects

Once you have successfully completed your training, you have a good basis for further training. You are familiar with working in a company at national or international level, so many doors are now open to you. Depending on your interests and your ability to learn, you can select one of the following training paths:

- Technical college (engineering school, various specialist institutions)
- Advanced technical exams (e.g. machine and equipment assembly supervisor)
- Advanced technical college/mechanic's course (engineering college, various technical institutions)
- etc.

Application

Every year at the end of August, an apprenticeship advert is published and/or displayed on our homepage, which you can use to make an application. If you're interested in training at REMP, please send your complete application dossier with your

- letter of application
- C.V.
- School reports (from Year 8, including teaching reports/end of term reports)
- Copy of multicheck certificate (www.multicheck.ch)
- References

to the following address:

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