

CG Rail GmbH

CG Rail GmbH is a nationally and internationally leading research and development company on innovative lightweight systems in multi-material design for rail vehicles and other transport systems in Dresden. For example, CG Rail GmbH developed the world's first lightweight metro in carbon intensive lightweight design in only 2 years, which was presented as CETROVO at InnoTrans in 2018. The unique know-how of CG Rail GmbH and its partners in the field of function-integrative lightweight system construction in multi-material design is also demonstrated by the bogie frame in carbon-intensive lightweight construction, which won the European "ERCI Innovation Award 2020". This bogie frame, which has been successfully tested over 12 million load cycles, achieves a mass saving of almost 50% compared with the metallic reference design.

For our location in Dresden, we are looking for the following person for a long time.

Design-Engineer (m/w/d)

Your tasks:

- Participation in feasibility and concept studies
- Design of components and complex assemblies in function-integrative lightweight construction from various materials
- Preparation of manufacturing documents such as 2D drawings
- Involvement in the design of production and test equipment
- Participation in the planning of experiments
- Preparation of reports and presentations (Word/Powerpoint) for the detailed documentation
- Presentation and discussion of results in the project team and with customers in the national and international environment

Close coordination within the respective project team

Your profile:

- Completed university studies (Univ.-Diploma / Master) or doctorate (Dr.-Ing.) in the field of mechanical engineering (preferably specialization in lightweight design, mechanics, rail vehicle engineering).

- *More than 5 years of industrial work experience as a design engineer in the fields of aerospace and/or wind turbines and/or automotive engineering and/or rail vehicle technology*
- *Very good knowledge of CATIA, ideally experience in Composite-Design-Module (CPD)*
- *Detailed knowledge and extensive experience (more than 3 years) for end-to-end simulation (manufacturing, operation, ...) of composite structures using the Finite Element Method (FEM)*
- *Ideally also experience in lay-up design of fibre composites (such as flow path simulation)*
- *Routine in the use and confident handling of MS Office*
- *Analytical way of thinking*
- *Goal- and solution-oriented way of working*
- *Very good knowledge of German and ideally also English, both written and spoken*
- *Occasional business trip to customer in Asia depending on project needs*

We offer:

- *An attractive workplace in the centre of Dresden*
- *Above-average salary in the Dresden region*
- *A motivated team in an international environment*
- *Challenging tasks and a varied daily work routine with personal responsibility*

We look forward to receiving your complete application, in which please state your salary expectations.

Please send your application documents to:

*Address: CG Rail GmbH
Freiberger Street 33
01067 Dresden
Germany*

E-mail: Bewerbung@cgrail.de, Phone: 0351/41673000