



We are a leading developer and manufacturer of mechanical and electronic locking systems as well as car access and authorization systems for the global automotive industry. Founded in 1908 in Velbert, Germany, we are an independent, family-owned company with around 7,300 employees at locations in Europe, America and Asia and achieved sales of more than EUR 1 billion in the financial year 2022.

FEA Specialist

Overview: Our products in passenger cars, such as door handles, latches, steering column locks and other mechatronic devices must fulfill requirements of structural strength under designed force levels. In FEA simulation, we aim to calculate and evaluate stress & strain, to ensure that the parts will not fail under the designed force levels. The challenge is to predict the behaviour of parts even before the physical parts exist, and to ensure their robustness.

Key Activities

- ▶ Develop FE models for structural analysis, mainly of glass fiber reinforced plastic components with consideration of fiber orientation and weldline
- ▶ Conduct FE analysis using ABAQUS
- ▶ Assess stiffness and strength of metallic and plastic components
- ▶ Collaborate closely with internal teams and provide expert advice for design improvement
- ▶ Evaluate simulation results and create simulation reports for documentation and review
- ▶ Utilize test results to validate simulations and continuously improve FE models

Desired Profile

- ▶ University degree in mechanical engineering, aerospace engineering or related field
- ▶ Solid knowledge of mechanics (statics and dynamics)
- ▶ Several years of professional experience in the field of FEA
- ▶ In-depth experience and expertise in ABAQUS (Standard/Explicit)
- ▶ Practical experience with Hyperworks (Hypermesh, Hyperview, etc) or similar tools
- ▶ Ability to deliver quality work on a timely basis

- ▶ Strong communicator both written and verbal in English and native language
- ▶ Team player with an open minded attitude
- ▶ Self-efficient and organized in prioritizing tasks and projects

Benefits

- ▶ Induction and training programs that provide you with all the knowledge to excel at the workplace
- ▶ Young, professional, and dynamic team
- ▶ Competitive salary and flexible benefits (sports, wellness, transport, holiday reward etc.)
- ▶ Health and well-being (medical care, fruits day, lunch vouchers etc.)
- ▶ Professional development both technical and managerial
- ▶ Increased work-life balance (flexible working hours and mobile work, extra vacation days)
- ▶ Special fidelity package
- ▶ Modern and central working facilities (contemporary offices, relaxing and entertainment areas).

If this sounds interesting to you, please send your comprehensive application materials to:

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