

Job Title:
CAE Engineer DACH

Reports to:
Global Service Manager

Primary Location:
Munich, Germany

Job status:
Full-time

Company Overview:

VI-grade is the leading provider of best-in-class software products and services for advanced applications in the field of system level simulation. Together with a network of selected partners, VI-grade also provides revolutionary turn-key solutions for static and dynamic driving simulation. Established in 2005, VI-grade delivers innovative solutions to streamline the development process from concept to sign-off in the transportation industry, mainly automotive, aerospace, motorcycle, motorsports and railways. With office locations in Germany, Switzerland, Italy, UK, Japan, China, and the USA, and a worldwide channel network of more than 20 trusted partners, VI-grade is a dynamic and growing company with a highly skilled technical team.

Since September 2018 VI-grade is part of <http://www.spectris.com>. Spectris is a FTSE 250 listed global conglomerate with 2017 sales over \$2B and 9,800 employees. The firm conducts business in four major segments: materials analysis, test & measurement, in-line instrumentation and industrial controls and serves a broad range of industries ranging from pharma, and electronics, to automotive, energy, mining, and aerospace.

Job Overview:

VI-grade is looking for a CAE Engineer, to be a part of the service team. In this position, the candidate should be helping customers in developing advanced vehicle dynamics modeling and analyses to support the vehicle programs and related simulation activities. He also helps customers to solve complex engineering challenges using VI-grade solutions.

Responsibilities and Duties:

- In his role, the CAE Engineer understands clients technical and engineering requirements and works to support vehicle development programs providing timely and reliable responses to client's simulation needs through CAE tools;
- Develop component, system and vehicle virtual CAE models (ADAMS Car, VI-CarRealTime, etc.), and rapidly iterate designs through simulation to meet vehicle program targets;
- Execute CAE models simulation in a variety of application scenarios (Handling, Ride&Comfort, Durability);
- Collect and analyze data from physical testing, establishing feedback loops to correlate and validate models when required;
- Implement and document vehicle dynamics tests, in accordance with customer workflow;
- Develop simulation procedures capable of enhancing customer workflow efficiency;
- Present results of activities to customer's management

- Contribute to VI-grade attitude of collaboration, continual learning, and creative problem solving;
- Develop relationships between VI-grade and customer teams, using creativity and teamwork to solve problems in the most efficient way possible;
- Can work at customers site for a certain period of time
- Is capable to handle multiple complex projects;
- Travel domestically and internationally as required;
- Work with flexibility and commitment to solving whatever problems encounter, in a high-pressure environment.

Basic Qualifications:

- Bachelor's, MS or PhD degree in Engineering
- Fluent German language (written and spoken)
- +2 years' experience using ADAMS Car, ADAMS Solver, ADAMS Tire
- Understanding and experience of vehicle dynamics theory and application
- Knowledge of multibody simulation of vehicles
- Strong analytical skills and a data-driven approach
- Experience of vehicle-based objective and subjective assessment of vehicles and prototypes
- A strong understanding of analysis tools used in automotive engineering e.g. Matlab, Simulink, ADAMS
- Demonstrated ability to summarize and present work to management and cross-functional teams

Preferred Qualifications:

- Ability to develop custom routines (Python, ADAMS command files and macros, ADAMS Car templates, MATLAB, Simulink, etc.) to support process enhancement and standardization
- Experience with VI-grade tools (VI-CarRealTime, VI-Driver, VI-Road)
- Experience in using CAE as a predictive tool for product development
- Experience in Driving Simulators
- Experience with Finite Element Analysis and Fatigue tools (NASTRAN, nCode, etc.)
- Self-starter with demonstrated problem-solving ability
- Attitude for creative engineering and problem solving
- Strong interpersonal skills

Contact:

Please submit your CV to careers@vi-grade.com along with a cover letter.