

**Job Title:**  
SimCenter Engineer

**Reports To:**  
SimCenter Manager

**Location:**  
Udine, Italy

**Job Status:**  
Full-time

### **Company Overview:**

VI-grade is a leading provider of real-time simulation and professional driving simulator solutions that accelerate product development across the transportation industry. The company's driving simulators range from static desk-side solutions to full-scale driver-in-the-loop dynamic simulators, allowing OEMs, suppliers, research centers, motorsport teams and universities to reduce physical prototypes and accelerate innovation. With a worldwide network of trusted partners, VI-grade delivers turnkey simulator solutions including proprietary software, hardware, services, and an open framework for customization. With over 30 years' experience in simulation, VI-grade is headquartered in Darmstadt, Germany with technology centers in Italy, UK, Japan, China, and the USA.

VI-grade is part of **HBK's Virtual Test Division**, which focuses on providing real-time software, simulator, and hardware-in-the-loop solutions to virtually test products throughout the development cycle, helping companies accelerate innovation and reduce time-to-market, and improve their competitive advantage. With 250 highly skilled employees, HBK's Virtual Test Division has offices in Germany, Italy, France, UK, China, Japan, and the USA as well as a broad network of worldwide channel partners.

Since September 2018, VI-grade has been part of **Spectris plc**. The firm conducts business in four major segments - materials analysis, testing & measurement, in-line instrumentation and industrial controls - and serves a broad range of industries ranging from automotive and aerospace to electronics, energy, mining, and pharmaceuticals.

### **We Offer:**

The job will provide the candidate with an opportunity to further vehicle engineering career alongside some of the best and most passionate technology experts from around the world in a leading company within automotive simulator industry. The candidate will be a key contributor who collaborates closely with colleagues from various business functions and he/she will be at the forefront of using and contributing to development of game-changing simulator technology.

The candidate will develop into a technical expert for VI-grade as well as playing a significant role in operational support for static and dynamic driving simulators. VI-grade has an innovation center in Udine, Italy, along with key technical personnel in other locations in Europe, Asia and the United States.

Freedom to innovate with responsibility is the framework for VI-grade's employees. This allows for a good balance between work and family life and for constant development of professional and personal skills in an international and enjoyable working environment.

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## Job Overview:

The purpose of this role is to be a key member of the driving simulator team at VI-grade SimCenter Udine facility, based in Udine, Italy. The candidate will be involved in the preparation and management of all SimCenter activities that will be performed on the entire range of VI-grade driving simulators.

The job will focus on working with customers to make them successful with VI-grade's driving simulator technology, playing a fundamental role in maintaining and operating driving simulators, including assisting customer sessions for both simulator evaluations and service projects.

In addition, the candidate will play a support role for existing customers in maintaining and using simulators throughout. He/she will contribute to the R&D projects for the development of new features, facilitating the implementation and use of VI-grade technology and solutions through examples, demos and real-world applications.

The candidate will also support VI-grade SimCenter activities, with focus on driving simulator experiences. This role includes a high degree of customer interaction for technical support, demonstrations, project execution for simulator solutions and multi-attribute simulators, working with a variety of customers with varying interest and needs for simulator technology.

## Responsibilities:

- Static and Dynamic Simulator operations
- Support customers hands-on simulator experiences and projects
- System operations, including maintenance, troubleshooting, repair, upgrades, and development
- Preparation of customer demonstration activities and rental projects
- Simulator data management and performance analysis
- Assistance of internal activities for ongoing research, developing VI-grade driving simulator to further enhance the realism and correlation between the real car on track and the DiL/HiL
- Compilation of detailed reports from findings from simulation session, testing data and DiL results
- Support implementation and testing of SiL, DiL and HiL systems for demonstrations or for customers in project work
- Development of driving simulator methodologies & KPIs

## Qualifications:

- MS in mechanical engineering (vehicle engineering preferred)
- Understanding of vehicle dynamics principals and modelling
- Good experience of data analysis techniques
- Basic understanding of control systems in theory and practice (experience with Simulink preferred)
- Exposure (direct experience preferred) to real-time dynamic analysis tools
- Exposure (direct experience preferred) using CAE tools for vehicle dynamics and/or NVH analysis
- Understanding of systems engineering principals and their application for problem solving in mechanical, electrical and/or software engineering
- Programming experience (MATLAB, Python, other) a plus
- Basic IT experience is a plus

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- Direct experience with HIL/SIL systems a plus
- Thrive in a dynamic, high-paced environment including hands on learning
- Ability to work on different projects while prioritizing tasks
- Ability to be self-motivated in interacting with internal teams, partners, and customers
- Ability to problem solve new and complex systems on the fly including multiple variable problems
- Must excel working under pressure with the ability to meet tight deadlines
- Self-motivated, driven, success-oriented, highly organized individual with collaborative communication style
- Strong written and oral communication skills

**Contact:**

Please submit your CV to [careers@vi-grade.com](mailto:careers@vi-grade.com) along with a cover letter.