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**Job Title:**

Application Engineer – NVH Driving Simulators

**Primary Location:**

Canton, Michigan, USA

**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, 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.

**Purpose:**

The purpose of this key role is to work with customers to make them successful with VI-grade's NVH driving simulator technology. You will demonstrate the value of the technology and solutions through examples, demos and real-world applications, and to facilitate the implementation and use of the technology and solutions by the customer.

**Employment Function Summary:**

Support VI-grade driving simulator solutions and business, with particular focus on NVH (Noise, Vibration Harshness) solutions. This role includes a high degree of customer interaction for technical support, demonstrations, project execution and training for NVH simulator solutions and multi-attribute simulators with NVH content, as well as working with the product development team to identify product improvements and opportunities for new solutions.

**Responsibilities and Duties:**

- Perform technical demonstrations
- Work with sales to close strategic sales
- Provide technical support on all NVH products and solutions

- Train customers on NVH solutions, including source path contribution and other related technologies
- Assist customers to integrate NVH Simulator technology into their processes
- Develop and present customer seminars on NVH solutions at NVH events and trade conferences
- Create and update training material to train and support customers on NVH solutions
- Work with the product development team to resolve technical issues in software and hardware
- Identify new sales opportunities that may arise from customer contact during support and training
- Identify opportunities for product improvement, both in the NVH solutions as well as in combining solutions from other VI-grade technologies
- Work together with product development team to define and create new and improved solutions, bring the voice of the customer into the product development process
- Internal training of engineering, service and sales staff
- Attain and maintain a high level of technical proficiency in VI-grade automotive simulator applications
- Support integrated multi-attribute simulator solutions including NVH components

**Qualifications/ Skills Required:**

- BS (MS preferred) in engineering or scientific field
- 5 year's experience in automotive NVH is preferred
- Experience and familiarity with the automotive NVH design process
- Experience in hands-on NVH problem solving
- Experience with advanced NVH techniques, e.g., source-path-contribution (transfer path analysis), sound quality, jury evaluation, hybrid experimental-analytical modelling
- Familiarity with NVH CAE techniques including FEA, SEA, CFD, MBD, 1-D modelling
- Hands-on experience with CAE tools and techniques
- Hands-on experience with full-vehicle NVH instrumentation and testing, and familiarity with current NVH instrumentation, measurement and analysis best practices
- NVH-related experience and knowledge of electrified vehicle powertrains
- Strong written and oral communication skills

**We offer:**

The job will provide you with an opportunity to further your career alongside some of the best and most passionate technology experts from around the world in a leading company within automotive simulator industry. You will be a key contributor who collaborates closely with colleagues from various business functions all over the

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world. You will be at the forefront of bringing game-changing technology to the NVH field.

You will be the key technical leader in the United States for VI-grade. Vi-grade also has an innovation center in Udine, Italy, along with key technical personnel in other locations in Europe, Asia and the United States. You will be a key contributor who collaborates closely with colleagues from various business functions all over the world, in addition to working with the some of the largest automotive companies in the world.

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.

**Contact:**

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