

Job Title:

Vehicle Dynamics and Performance Engineer

Reports To:

The resource will report to Global Services Manager

Primary Location:

Italy. Resource may also be asked to work onsite at customer locations for extended periods of time.

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.

Job Overview:

The Vehicle Dynamics and Performance Engineer is responsible for executing technical projects around vehicle development with a particular emphasis on vehicle dynamics and performance analysis using VI-grade solutions. They will also support the services pre-sales process of VI-grade to help secure consulting projects.

Core Function:

- In this role, the Engineer primary role is to execute service projects on or off-site for customers.
- the Engineer understands clients technical and engineering needs, translating these into VI-grade's solution portfolio when applicable.

Details of Function:

- Support services project around VI-grade solutions and areas of expertise.
- Identify and analyze customer's technical needs, current solutions and processes and simulation requirement.. Develop component, system and vehicle virtual models and rapidly iterate designs through simulation to meet project targets;

Job Position: Consultant for Vehicle Dynamics and Performance

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- Execute calculations and CAE models simulations in a variety of application scenarios (Handling, Performance, Energetic, Ride&Comfort, Durability);
- Collect and analyze data from CAD, PLM, and, physical testing, establishing feedback loops to correlate and validate models when required;
- Develop simulation procedures capable of enhancing workflow efficiency;
- Present results of activities to customer's management;
- Develop relationships between VI-grade and customer teams, using creativity and teamwork to solve problems in the most efficient way possible;
- Articulate the technical value proposition of VI-grade across all products and services;
- Collaborate with all levels of technical users and management;
- Interact with VI-grade's Technical Support, Development, Services, Sales and Marketing teams as required.

Basic Qualifications:

- Master of Science degree in Engineering (PhD degree is a plus);
- Strong background in vehicle dynamics and energetic dimensioning of IC, hybrid and electric vehicles;
- Assessment of customers technical requirements and ability to convert them into technical solutions;
- Experience in team working to deliver engineering solutions, products and services to clients;
- Ability to establish peer-level relationships with client staff;
- Excellent presentation and written communication skills in Italian and English;
- Ability to work in dynamic environments involving multitasking, under pressure, to a deadline projects;
- Responsiveness to customer requests, coordinating solution development by leveraging pre-tested solutions and designs and by researching customized solutions.

Preferred Qualifications:

- Knowledge of VI-grade tools and/or tools like Adams, Dymola, CarMaker, CarSim, MATLAB Simulink;
- Experience with CAD and PLM systems (CATIA, Windchill);
- Programming skills (Python, MATLAB, C, C++, Java).
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Contact:

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