Job Title:
Software Engineer

Location:
Italy (Udine); Onsite

VI-grade is part of HBK's Virtual Test Division, which provides real-time software, simulator, and hardware-in-the-loop solutions to virtually test products throughout the development cycle, helping companies accelerate innovation, reduce physical prototypes and time-to-market, and improve their competitive advantage.

Our real-time simulation and professional driving simulator solutions include static deskside solutions, through to full-scale driver-in-the-loop dynamic simulators. We deliver turnkey solutions to enable transportation industry OEMs, suppliers, research centers, motorsport teams and universities to accelerate product development. This includes supplying proprietary software, hardware, services, and an open framework for customization.

Virtual Test employs 250 highly skilled colleagues worldwide, and has offices in Germany, Italy, France, UK, China, Japan, and the USA, as well as a broad network of worldwide channel partners.

We are looking for a talented ***Software Engineer*** to join our team. Your primary focus will be to grow and maintain the agent simulation module (traffic management) included in VI-WorldSim.

Primary Responsibilities:
- Take ownership of the current agent simulation module.
- Maintain and optimize existing code.
- Introduce new functionalities cooperating with the rest of the engineering team.
- Develop and maintain interfaces to ASAM standards (mainly openScenario and openDrive).

Qualifications:
- Knowledge of Agent simulation techniques.
- Knowledge of ASAM standard (openScenario / openDrive)
- Vehicle dynamics fundaments
- Control system design fundaments
- C/C++ programming language
- Python programming language

Preferred Qualifications:
- Knowledge of Matlab/Simulink
- Familiarity with Unreal Engine and in particular the Chaos framework
- Familiarity with SUMO or other agent simulation frameworks.

To Apply:
Go to **https://spectris.wd3.myworkdayjobs.com/HBK_Careers/job/Tavagnacco-IT/Software-Engineer_13075-1**