



Iveco Group N.V.
Corporate Seat: Amsterdam,
the Netherlands
Chamber of Commerce
Registration no.
83102701

Iveco Group (MI: IVG) is a global automotive leader active in the Commercial & Specialty Vehicles, Powertrain, and related Financial Services arenas. Each of its eight brands is a major force in its specific business: IVECO, a pioneering commercial vehicles brand that designs, manufactures, and markets heavy, medium, and light-duty trucks; FPT Industrial, a global leader in a vast array of advanced powertrain technologies in the agriculture, construction, marine, power generation, and commercial vehicles sectors; IVECO BUS and HEULIEZ, mass-transit and premium bus and coach brands; Iveco Defence Vehicles, for highly-specialised defence and civil protection equipment; ASTRA, a leader in large-scale heavy-duty quarry and construction vehicles; Magirus, the industry-reputed firefighting vehicle and equipment manufacturer; and IVECO CAPITAL, the financing arm which supports them all. Iveco Group employs approximately 34,000 people around the world and has 29 manufacturing plants and 31 R&D centres.

FPT Motorenforschung AG in Arbon has around 250 highly qualified employees working with commitment and acknowledged success. As the main innovation center for FPT Industrial, the site is involved in developing future powertrain solutions (not only in electrified powertrains, hybrids and fuel cells, but also novel engines concepts and alternative fuels) and is therefore at the forefront of a transition towards a future of alternative propulsion systems.

We would like to fill the following position as soon as possible:

Fuel Cell System Controls and Testing Engineer

As a member of the Fuel Cell Systems Team in the Electrified Powertrain Engineering division of FPT Industrial, you will be part of a highly skilled team driven to analyse and engineer best-in-class fuel cell systems for FPT Industrial electrified powertrain product portfolio. You will support the engineering, development and integration of fuel cells into hybrid powertrains.

Your tasks

- Working in a multidisciplinary team, you participate in the development of fuel cell system control algorithms, testing and validation
- Support applications activities on test bench prototypes
- Debug control hardware and software integration issues
- Support CAN communication configuration
- Develop test plans for calibration and validation of SW functionalities
- Define and support complete test procedure along the development process including MIL and HIL



- Develop fast running models and perform simulations of fuel cell systems, balance of plant components and fuel cell stacks
- Communicate results and make presentations that describe analysis and solutions

Your profile

- University degree in relevant engineering or science discipline
- Comprehensive experience in physical modelling, simulation and model-based controls
- Several years of experience in fuel cells software development, modelling and hands-on testing
- Experience working with automotive controllers, sensors and actuators
- Experience with application development, software builds and release activities
- Experience leading/supporting test and integration activities
- Experience with degradation strategies mitigation is considered an asset
- Experience with cold start strategies is considered an asset
- Experience in fuel cell water and thermal management
- Very good understanding of fuel cell stack and system interactions
- Good understanding of fuel cells controls methodologies
- Strong knowledge of fluid dynamics, heat transfer and electrochemistry
- Strong understanding of common control development practices, performance issues and trade-offs
- Very good understanding of CAN, LIN and other common automotive networks
- Good understanding of model validation techniques, relevant statistics and non-linear Design of Experiments
- Proficient in Matlab/Simulink, any other coding language would be an asset
- Fluent English (spoken and written)
- Highly motivated self-starter and team-player with the ability to manage multiple tasks

Interested?

Please send your application to recruitment.arbon@cnhind.com

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