



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:

## System Controls and Testing Engineer (Fuel Cell)

Iveco Group is promoting electrification of light commercial to heavy commercial vehicles and fuel cell technology is seen as a major contributor towards Zero Emission and Sustainability targets.

The Battery and Fuel Cell division of FPT Industrial is an important group who is developing and validating the core products of battery and fuel cell; the fuel cell team is actively engaged in developing a high efficiency and high performance Fuel Cell System and supporting the business development towards the IVECO group commercial vehicles. As a member of the Fuel Cell Systems Team, you will be part of a highly skilled team. The team is driven for the fuel cell adoption in the industrial applications and enriching its product portfolio.

You will support the engineering, development, and integration of fuel cells into hybrid powertrains.



## Your tasks

- Developing System control SW algorithms for main Fuel Cell System with Simulink
- Optimizing parameters for (anode, cathode, cooling, E/E subsystems)
- Testing and validation of developed SW functionalities at MiL/HiL/Test Bench
- Support CAN communication configuration
- Develop test plans for SW functionalities
- Define and support complete test procedure along the development process including MIL and HIL
- 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
- Very good understanding of fuel cell stack and system interactions
- Several years of experience in fuel cells SW development, modelling, and hands-on testing
- 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
- Experience working with automotive controllers, sensors, and actuators
- Experience with application development, software builds and release activities
- Experience leading/supporting test and integration activities
- 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
- Experience with degradation strategies mitigation considered an asset
- Experience with cold start strategies considered an asset
- Good understanding of model validation techniques, relevant statistics and non-linear Design of Experiments
- Experience in fuel cell water and thermal management

## Interested?

For further information, please contact Mr. Michele Miccio – Tel. +41 71 44 77 263.



Please send your application to [recruitment.arbon@cnhind.com](mailto:recruitment.arbon@cnhind.com)

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