



CNH Industrial is a global leader in the capital goods sector with established industrial experience, a wide range of products and a worldwide presence. Each of the CNH Industrial's brands is a major international player in its specific industry: Case IH, New Holland Agriculture and Steyr for tractors and agricultural machinery; Case and New Holland Construction for earth moving equipment; Iveco for commercial vehicles; Iveco Bus and Heliouz Bus for buses and coaches; Iveco Astra for quarry and construction vehicles; Magirus for firefighting vehicles; Iveco Defence Vehicles for defence and civil protection; and FPT Industrial for engines and transmissions. More information can be found on the corporate website: www.cnhindustrial.com

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 FPT Industrials' 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.

Marie Curie Fellowship in Fuel Cell Development

As a member of the Fuel Cells 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 fully electric powertrains. You will be contributing to the development of advanced concepts as well as their implementation for application to on-road and off-road applications.

Your tasks

- Development of several models to predict fuel cell stack durability for commercial applications for use in different levels and stages of design of the fuel cell system
- Literature research related to degradation phenomena of fuel cell stack components
- Design of experiments to collect required data for development and validation of models
- Development of new diagnostic tools and methods to measure new parameters previously not thought of
- Data analysis of test data and post processing for model development
- Development of accelerated stress tests for key fuel cell stack components (MEA and bipolar plates)
- Interfacing with other institutions and coordinating potential work packages to be executed by universities (ETH / PSI)

Your profile

- holding Ph.D. in the field of fuel cells by September 2021 (MSCA requirement)
- have a maximum of 8 years full-time equivalent experience in research after PhD, by September 2021 (MSCA requirement)
- less than 1 year living in Switzerland in the past 3 years (MSCA requirement)
- expert in the field of fuel cell stack durability and modelling of complex electrochemical phenomena
- very good knowledge of programming in MATLAB/Simulink or Python
- very good knowledge of statistical concepts to aid in experimental planning, data interpretation and processing
- strong analytical skills
- pro-active, self-starter, able to troubleshoot test stations and test hardware
- Able to manage budget, time plans and ordering of parts for experiments
- fluent English

The selected researcher will be contacted for MSCA development and training opportunity. We will support the candidate to prepare and submit the proposal. The candidates, whose proposal will be accepted by EU, will work with the fuel cell team at FPT.



Duration: 2 years contract

Application deadline to FPT: June 1st, 2021

Proposal submission deadline: September 15th, 2021

Start date: March 2022 or later

Workplace: FPT Motorenforschung AG, 9320 Arbon, Switzerland

Interested?

For further information, please contact Mr. Resende– Tel. +41 (0)71 44 77 192. Please send your application to Human Resources:

recruitment.arbon@cnhind.com

FPT Motorenforschung AG, Schlossgasse 2, CH-9320 Arbon, Tel. +41 (0)71 44 77 477

www.fpt-motorenforschung.ch



Welcome to a world of opportunities.
Welcome to CNH Industrial.