



**CNH Industrial** CNH Industrial is a global leader in the capital goods sector that, through its various businesses, designs, produces and sells agricultural and construction equipment, trucks, commercial vehicles, buses and specialty vehicles, in addition to a broad portfolio of powertrain applications. Across its 12 brands, 64 manufacturing plants, 49 research and development centers and a workforce of more than 70'000 people, CNH Industrial is present in 180 countries giving it a unique competitive position.

**FPT Motorenforschung AG** in Arbon has more than 250 highly qualified employees working with commitment and acknowledged success. Our activities: all aspects of engine research and development, particularly diesel engines with direct injection and after-treatment systems for road vehicles and off-road applications. Investing in the future and providing new jobs, we are looking for a

## **Development Engineer for Exhaust After-Treatment Systems (ATS) Simulation (f/m)**

The ATS Simulation team supports the development of efficient exhaust aftertreatment systems and robust control algorithms and strategies for them, by employing state-of the art simulation tools and innovative methods.

### **Your tasks**

- Planning, coordination and execution of measurement campaigns at the engine and synthetic gas test benches for the characterization of aftertreatment components
- Calibration of simulation models of the thermophysical and chemical properties of exhaust gas aftertreatment components and systems
- Simulation studies for the design and validation of exhaust gas aftertreatment systems
- Development of methods and tools for the automatic calibration of simulation models of exhaust gas aftertreatment systems, based on experimental data from the engine and synthetic gas test bench
- Development of new workflows and tools for the integrated simulation of complete powertrains
- Development of tools for pre-processing and post-processing simulation data
- Support of the integration of ATS simulation models in HiL/SiL environments
- Documentation and presentation of results to internal and external customers

### **Your profile**

- Engineering degree, preferably Master's or PhD, in the field of mechanical/chemical/process engineering or other relevant field, with profound knowledge in the field of modelling and simulation
- Experience with modelling of aftertreatment systems and/or internal combustion engines. Experience with dedicated engine/aftertreatment simulation tools such as GT Power or axisuite is highly desired.
- Expert knowledge of Matlab/Simulink. Other programming languages (Fortran, C++) desired.
- Fluent in spoken and written English (C1). German and Italian language desired

### **Interested?**

For further information please contact our team leader Mr. D. Tsinoglou – Tel. 071 44 77 338. Please send your application to Human Resources: [recruitment.arbon@cnhind.com](mailto:recruitment.arbon@cnhind.com)

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Welcome to CNH Industrial.