



**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 around 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 aftertreatment systems for road vehicles and off-road applications. Investing in the future and providing new jobs, we are looking for a

## **Electrified Powertrain Certification Engineer (f/m)**

As a member of the System Development Team in the Electrified Powertrain Engineering division of FPT Industrial, you will be part of a highly skilled team driven to design and engineer best-in-class electrical systems and architectures for FPT Industrial electrified powertrain product portfolio. You will analyse requirements of international regulations and internal standards for the approval of systems for electric and hybrid powertrain, supporting and supervising the process of component and system qualification and certification up to vehicle level. You will work in a collaborative team environment. You will be contributing to the development of advanced concepts as well as their implementation for application to on-road vehicles and non-road applications.

### **Your tasks**

- Working in a multidisciplinary team, develop and deliver best-in-class electric system architectures for FPT Industrial electrified powertrain product portfolio for hybrid and full electric powertrains
- Analyse customer requirements
- Identify requirements for vehicle type approval, based on national and international legal framework
- Identify requirements for certification of electrified powertrain systems and components
- Support the specification of electric powertrain architecture and component specifications based on mandatory certification requirements
- Support the definition of functional, acceptance and qualification test plan to be executed at supplier's facilities, or internal facilities, or in an external qualified laboratory.
- Support the design the experiment
- Collect and prepare technical reports after test execution required for certification.
- Support problem solving and troubleshooting activities
- Communicate results and make presentations that describe analysis and solutions
- Collaborate closely with various internal departments / laboratories and universities
- Keep continue updating of applicable technical regulation and standard database



## **Your profile**

### Basic Qualifications:

- You have a university degree in engineering, few years of experience in a similar role
- Background on applied mechanics for road vehicles: basic vehicle dynamics, braking systems, hydraulic systems, transmissions.
- Background on electrical engineering
- 2+ years of experience on:
  - Demo vehicle prototyping
  - Testing of vehicle at test bench or on road: functional tests, performance verification, noxious and CO2 emission measurement
  - Testing and tuning of thermal engines
- You have good German and English skills (spoken and written), Italian skills would be an asset – Arbon
- You have good Italian and English skills (spoken and written), German skills would be an asset - Turin
- You are a highly motivated self-starter and team-player with very good communication skills

### Preferred Qualifications:

- Strong technical understanding of components for electrified powertrain: electric machines, DCDC, ACDC, DCAC converters, battery systems.
- Sound knowledge on electrical engineering
- Sound background on electromagnetic compatibility: understanding of disturbances and conducted/radiated emission measurements
- Experience with safety critical electronic product development for automotive/commercial vehicle electrified applications
- Experience with FMEA, DVP, ISO 26262, relevant automotive/industrial vehicle standards
- Self-motivated with the ability to manage multiple tasks
- Good technical communication skills
- Heavy vehicle driving licence would be an asset

## **Interested?**

For further information please contact Mrs. S.Tur – Tel. +41 (0) 71 447 71 82. Please send your application to Human Resources: [recruitment.arbon@cnhind.com](mailto:recruitment.arbon@cnhind.com)

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