



**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

## **Electric Machines and Drives Engineer (f/m)**

As a member of the Electric Drives 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 electric machines and power electronics for FPT Industrial electrified powertrain product portfolio. You will design, develop and integrate electric machines and power electronics into hybrid and full electric powertrains. 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 machines and power electronics designs for FPT Industrial electrified powertrain product portfolio for hybrid and full electric powertrains
- Perform relevant design and performance analysis
- Connect the organization to the latest technology developments and trends in industry, also monitoring market and competitors' product portfolio
- Specify component technical requirements (State of Requirements) and evaluate supplier technical proposals (Sourcing and technical reviews)
- Define, manage and supervise supplier and internal component development and validation activities: drawings and technical documentation release, virtual simulation, design and installation FMEA, test plans (DVP) Plan and supervise test series on rig (components), bench and vehicle (total system)
- 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



## **Your profile**

### Basic Qualifications:

- You have a university degree in electrical engineering, several years of experience in a similar role
- A good understanding of system and component interactions
- 3+ years of experience on either or both of
  - Electromagnetic analysis with CAE tools and design and development of electric machines
  - Design and development of inverters and DCDC converters
- 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 electric machine physics, modelling, and technology highly preferred
- Strong technical understanding of inverters, dc/dc converters, semiconductors, passive electronic components, busbar concepts, connectivity
- Experience with safety critical electronic product development for automotive/commercial vehicle electrified applications
- Experience with FMEA, DVP, ISO 26262, relevant automotive/industrial vehicle standards
- Good understanding of manufacturing
- Self-motivated with the ability to manage multiple tasks
- Good technical communication skills

## **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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