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

Calculation Engineer (f/m)
Virtual Structural Analysis

Your tasks

- Perform finite element analyses (linear static, dynamics, non-linear, thermo-mechanical), optimization, fatigue and durability assessments on engine components and sub-systems. That is everything from auxiliary supports, crank train, exhaust system, block, cylinder head parts, etc.
- Provide design directions to the component design responsible engineers
- Assist and support chief engineers, project management and specialists in engine testing, experimental structural analysis, integration, and application
- Prepare technical reports
- Provide input on the creation of component specification, component DFMEA, and other technical design documents where analysis plays a central role
- Continuous update and improvement of calculation guidelines, methodologies and best practices

Your profile

- Degree in engineering
- Experience in FE analyses of complex mechanical components (ideally 2 – 3 years)
- Knowledge in FEM tools for pre and post processing and FE solvers (e.g. Hyperworks, FemFat, Permas, etc.) would be beneficial, although training will be given
- Experience with engines and analysis of engine components would be helpful
- Fluent English, both spoken and written, some German and Italian language skills would be further helpful in our international working environment
- You are a flexible self-starter and team-player with very good communication skills highly motivated to solve engine design and performance problems using FEM methods

Opportunities

- The working environment in the Virtual Structural Analysis group is excellent with interesting and demanding projects, young motivated colleagues and the latest hard and software
- While working directly with the design and engine platform teams from the very beginning and in various projects, you will have major impact on the final design putting your ideas into practice and applying your experience
- By gaining further experience, knowledge and the reputation for fast and reliable engine analyses, an increasing amount of influence will be made on the final product which leads to the higher level of responsibility within the organization

Interested?

For further information please contact Mr. Markus Dahlbokum, tel. +41 (0) 71 447 72 79. Please send your application to Human Resources: recruitment.arbon@cnhind.com

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