

Porsche **eBike** Performance

Simulation Engineer(m/f/d)

Immediately · Full time 40h/week · Ottobrunn near Munich



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At the headquarters in Ottobrunn near Munich, the Porsche eBike Performance GmbH develops and produces advanced drive systems for two brands: FAZUA with the focus on pioneering compact lightweights for agile e-bikes and under the brand name Porsche exceptionally powerful drive systems. FAZUA is a young, ambitious brand that has transformed the cycling industry in 2017 with its innovative drive system for agile, compact, lightweight (and extremely good looking) e-bikes. Since July 2022, we are a part of the Porsche eBike Performance GmbH. Our diverse, open-minded, ambitious (and fun) team is constantly seeking new, inspiring talents who will help us push boundaries to shape the future of e-bike technology.

YOUR TASKS

- Carry out numeric simulations (e.g. FEM or FVM) of heat transfer in mechanical systems and electronic components
- Translate concrete problem to a numerical model
- Review and interpret analysis results to ensure project accuracy and convert into design proposals
- Perform FE-simulations of performance and durability in mechanical systems
- Translate actual problem into a FEA model
- Review and interpret project-related analysis results to ensure project accuracy and converting into design suggestions
- Implementation of virtual twins of different systems
- Investigate opportunities to reduce physical testing
- Provide suggestions for design optimizations
- Manage outsourced CAE support
- Provide expert analysis of simulation results and design recommendations presented by external partners
- Develop and implement methods for verification of simulation results
- Support strategic planning and deployment of additional CAE modeling processes

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YOUR PROFILE

- You have a degree in mechanical engineering, automotive engineering, physics or a comparable course of study.
- Stronger foundation in heat transfer and fluid mechanics
- Sound background in structural mechanics and materials science
- Experience in the use of Finite Element Methods for heat transfer modeling of mechanical systems and electronic components
- Experience in the use of Finite Element Methods for structural modeling of mechanical systems
- Proficiency in the use of Finite Element modeling tools such as Dassault 3DExperience, Abaqus, Ansys or Catia
- Proficiency in CAD modeling tools such as Solidworks
- Desire and willingness to share one's knowledge, expertise and collaborate with coworkers with diverse backgrounds and areas of expertise
- Good communication skills in English

YOUR BENEFITS

- We are a diverse and international team of creative minds, passionate bike nerds, and progressive thinkers
- You will see your ideas taking shape quickly: bring in your thoughts, challenge the status quo and see innovations being implemented soon
- You can work remotely from home equipped with top hardware. Yet, in Ottobrunn, right on the outskirts of Munich, our headquarters also feature nice rooms, a huge terrace, and the best colleagues
- Our location in the jaw-dropping Bavarian landscape offers a fantastic surrounding for rides. Take the chance to lease your dream bike on JobRad or simply grab one of our test bikes if available
- We try to live sustainability in everything we do – instead of just talking about it
- We are supportive of further education and foster ambitions of growth
- We offer 30 days of vacation for you to fuel up and find new inspiration

Do you want to become part of the Porsche eBike Performance team? Send your CV and a short motivation letter including your availability and salary expectation to jobs@porsche-ep.com.

Your contact person: **Dennis Ebeling**
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