

Electric Machines Simulations and Development Engineer

München, Unterföhring

For our international development team in Munich, we are looking for a

Fulltime-Simulation and Development Engineer

Join us and take part to the development of innovative mechatronic systems for electromobility in the field of automotive and truck industries.

Our development office is located in the heart of the automotive development. With a close link to our customers, OEMs and Tiers1, we develop next generation electromobility applications, aiming to be part of the Total Net Zero emission transition for a better and more sustainable future.

Compact Power Motion (CPM) GmbH, part of Sonceboz Group (HQ based in CH, 1200 employees, 60Mpcs manufactured a year. www.sonceboz.com), relies on its agile creative team to develop first concept, theoretical studies and self-made prototypes. Our main competences are the mechatronic development, software, motor control, electric motor, power electronic and mechanic.

We reinforce our simulations & development capabilities in the field of electric machines, and we need an electric machines simulations and development engineer.

Study: Electrical Engineering, Energy Conversion | Master degree or PhD in Electrical Engineering

Mission:

- In collaboration with the electronic and mechanical engineers, design and optimize electric machines according to customers requests.
- Support project acquisition through quick and reliable pre-study
- Build models and tools to support efficient developments
- Run some tests in our lab to compare simulations and prototypes performances
- Provide ideas and concept to serve innovation withing the Sonceboz group, as well as differentiating from competition, which could be turned into patent
- Simulations and sizing of gears and gearboxes concepts to be integrated with the electric motor and its controller.

Know-How:

- Very good understanding of physics of electric machines
- 5 years+ experience in the field of electric machines simulations
- Good knowledge of Finite Element Software (for ex : Altair Flux2D/3D, FEMM...)
- System modelisation Software (Simulink, Matlab, Matcad...)
- 3D CAD system (Solidworks)
- English written/spoken – must have
- German written/spoken - preferred
- Creative, good communication skills with internal and external partners, enthusiastic, flexible, perseverant

We offer

- Interesting and innovative projects in the automotive field
- Strong link with a manufacturing group which targets to bring our innovation into mass production
- Space to express ist creativity with prototyping capacity
- Modern, light and spacious offices
- Good loan, with flexible working hours, holidays and bonus system according to salary scale
- Harmonious, family spirit Team
- Based in Munich Unterföhring at the north of the Englishergarten
- And for a smoother integration: Support for relocation in Munich from abroad and German language lessons