

Tire Vehicle Interaction and Tire Modeling Engineer (m/f/diverse)

- REF97706Z

Descrição da função

As Tire Vehicle Interaction and Tire Modeling Engineer (m/f/diverse) you will lead the development and integration of CAE methods and processes to facilitate the virtual development of tires for OE applications, based on the analysis of the interactions with the application vehicle. The focus is in the area of Vehicle Dynamics, NVH and tire Wear.

Your main tasks and responsibilities are:

- Identifying gaps and opportunities to utilize simulation tools to derive the optimum product development strategy and turning them into a concrete proposal for a virtual-based process
- Assessing the feasibility of OE customer requirements in the field of tire models and performance prediction and deriving realistic and in-time responses
- Driving the development of tools and methods for virtual tire model generation (commercial models such as MF Tire, MF SWIFT, FTire, CDTire or Continental proprietary ones) and performance prediction within structured projects in collaboration with the tire development teams, the external OE customers and the complete CAE community within Continental
- Leading the application of prototype virtual methods and tools. You are taking responsibility for standardizing their utilization by product development teams worldwide, offering training, support and customization on demand
- Being actively involved in tire product development activities when appropriate and stepping in proactively to offer technical consultation and lead specialist-level technical interactions with external customers

Requisitos

- Academic degree in the field of Engineering or Physical / Natural Sciences or similar
- Proven knowledge of tire & vehicle interaction mechanisms (with a focus on one or more of the following performances: steering, handling, ride, comfort, NVH, exterior noise, interior noise, wear) through professional experience in the vehicle industry or a tire manufacturer
- Basic experience with the application (ideally development) of Finite Element Methods for tire simulation either with commercial or company-internal software packages
- Experience with developing CAE processes and tools to fulfill engineering requirements
- Basic programming skills allowing self-sufficiency in initial stage of CAE method development (e.g. MATLAB/SIMULINK, Python or



Identificação da vaga
REF97706Z

Área funcional
Research and Development

Local
Hanover

Nível de liderança
Leading Self

Modalidade de trabalho
Hybrid Job

Horário de trabalho
Full Time

Contato
Philipp Meinen

Pessoa jurídica
Continental Reifen Deutschland GmbH

similar)

- Experience with on-line (human-in-the-loop) or off-line vehicle dynamics simulation (such as driving simulator systems) is a benefit
- Hands-on experience with the parametrization and/or application of commercial tire models such as MFTire, MFSWIFT, FTire, CDTire, ideally with the virtual (simulation-based) generation of them is a benefit
- Experience with problem-solving in engineering tasks, project management and collaboration within complex and multidisciplinary teams; proven performance under pressure and tight schedules
- English language business fluency (written and spoken)

Applications from severely handicapped people are welcome.

O que oferecemos

- **Attractive Compensation:** You will receive a salary based on the collective agreement of the chemical industry, including an annual pay and vacation bonus – transparent, fair, and future-oriented.
- **Flexibility that fits your life:** This position is generally intended to be filled on a full-time basis. At the same time, we are open to individual part-time arrangements, provided they are compatible with the requirements of the role. With flexible working hours, mobile working, and sabbaticals, we will find a working model that suits your individual needs.
- **Time off that truly matters:** Enjoy 30 days of paid vacation per year – plus three additional days off for individual use as part of our “Future Value” program.
- **Secure your future:** With our company pension plan, we already invest today in your financial security of tomorrow.
- **Career with perspective:** We actively support you in shaping your career through individual trainings, access to learning platforms such as LinkedIn Learning, and a wide range of development opportunities.
- **Borderless opportunities:** As an EU citizen, you can work remote from other EU countries for up to 40 days per year – offering greater freedom and international flexibility.
- **Exclusive employee benefits:** Take advantage of attractive discounts and a wide range of employee benefits.
- **Stay fit – nationwide:** With our comprehensive range of health and wellness initiatives, you stay active – wherever you are in Germany.
- **Sustainable mobility:** Use our “JobRad” bike leasing program and secure your preferred bicycle at attractive conditions – for more fitness, climate protection, and enjoyment on your daily commute.
- **A family-friendly culture:** We support you with various offers that help balance work and family life, such as on-site childcare places and free emergency childcare services.
- **Support when it matters most:** The Fürstenberg Institute provides you with a confidential external point of contact for professional advice and support in both personal and professional matters.
- **A work environment that embraces diversity:** Look forward to working in a diverse and international environment through collaboration with our global locations.

For more information about the employee benefits you can expect at Continental, please visit our [benefits page](#). If you would like to learn more about our location, feel free to visit our site page: [Continental Hannover Stöcken](#).

[Diversity, Inclusion & Belonging](#) are important to us and make our company strong and successful. We offer equal opportunities to everyone - regardless of age, gender, nationality, cultural background, disability, religion, ideology or sexual orientation.

If this sounds like a perfect match for you and if you want to become the next supporter of our core values: **Trust, for one another, passion to win and freedom to act** - we are looking forward to receiving your application.

Ready to drive with Continental? Take the first step and fill in the online application.

Quem somos

Continental is a leading tire manufacturer and industry specialist. Founded in 1871, the company generated sales of €19.7 billion in 2025 and currently employs around 78,000 people in 54 countries and markets.

Tire solutions from the Tires group sector make mobility safer, smarter, and more sustainable. Its premium portfolio encompasses car, truck, bus, two-wheel, and specialty tires as well as smart solutions and services for fleets and tire retailers. Continental has been delivering top performance for more than 150 years and is one of the world's largest tire manufacturers. In fiscal 2025, the Tires group sector generated sales of 13.8 billion euros. Continental's tire division employs more than 56,000 people worldwide and has 19 production and 16 development sites.