

Simulation Software Development Engineer (m/f/d) - REF97697Z

Descrição da função

The **Mechanics & Simulation Development Department** is responsible for the development of Finite Element-based (FEM) tire simulation processes and methods, including visualization and analysis tools to provide complete solutions for understanding and optimization of the product. This position is intended to be filled on a full-time basis. However, applications for part-time employment will be considered in accordance with business needs.

Your main tasks are:

- Design and implementation of software architecture for finite element simulation
- Implement numerical methods, solver integrations, and mesh/geometry processing tools
- Maintain and enhance simulation workflows, including pre- and post-processing capabilities
- Ensure high software quality through testing, validation, and careful debugging
- Optimize performance for parallel and high-performance computing environments
- Collaborate with engineering teams to translate physical models into robust software solutions
- Support modern development practices (Git, CI/CD, code reviews) and continuous improvement

Requisitos

- MSc or PhD degree in Computer Science, Engineering, Applied Mathematics, Natural Sciences, or a related technical discipline with several years of relevant work experience
- Good understanding of the physical and material principles governing tire behavior, with the ability to reason from first principles
- Strong proficiency in modern C++ and solid software design principles; Python experience is a plus
- Proven experience contributing to open-source frameworks; publicly verifiable contributions are an advantage
- Experience applying agentic coding paradigms to solve real-world problems, with clear evidence of outcomes
- Solid understanding of geometry processing and mesh generation algorithms, including parametrization, feature alignment, and mesh quality optimization
- Experience working in Linux environments and with version control (Git)
- Strong attention to detail, with a rigorous approach to debugging, validation, and ensuring correctness in complex software systems
- Strong hands-on, solution-oriented mindset with a proven ability to take ownership and solve problems



Identificação da vaga
REF97697Z

Área funcional
Research and Development

Local
Hanover

Nível de liderança
Leading Self

Modalidade de trabalho
Hybrid Job

Contato
Philipp Meinen

Pessoa jurídica
Continental Reifen Deutschland GmbH

- Proficient English language skills (written and spoken)
- Good communication and interpersonal skills, with the ability to collaborate effectively across software and engineering teams

Applications from severely handicapped people are welcome.

O que oferecemos

- **Attractive compensation:** We reward exceptional qualifications and experience with an above-tariff salary, with the option of an above-tariff salary
- **Flexibility that fits your life:** Whether mobile working, part-time models, flexible working hours, or sabbaticals - together we find a working model that suits your individual needs.
- **Time off that truly matters:** Enjoy 30 days of paid vacation per year.
- **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](#) / [Hannover Corporate Headquarters](#).

[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.

#LI-Hybrid

#LI-TS1

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 76,000 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 currently employs around 53,000 people worldwide and has 19 production and 16 development sites.