

Master Thesis – Multi-Objective Optimization for Tire Development (m/f/d) - REF93540N

Descrição da função

The R&D Data Science Team at our Hannover-Stöcken location is responsible for data-based support of research and development in the field of tires. To achieve this, we utilize a mix of self-service business intelligence solutions and modern machine learning techniques to provide our tire developers with advanced tools for the tires of the future.

Within this exciting work environment at our location in **Hanover-Stöcken**, we are offering a master thesis position (incl. internship) **starting September 2026**. For the best learning experience possible, the internship should require a duration of **about 3 months**.

Your tasks:

- Formulate tire concept selection as a constrained multi-objective optimization problem based on multiple predictive models
- Integrate heterogeneous prediction outputs such as point predictions, prediction intervals, probabilities, and reliability indicators into a common optimization framework
- Incorporate prediction uncertainty using risk-aware objectives, chance constraints, Monte Carlo evaluation, sensitivity analysis, or related methods

Requisitos

- Ongoing studies in mathematics, computer science, data science, statistics, engineering or a comparable quantitative field, ideally with a specialization in optimization, machine learning, statistics, operations research or numerical methods
- Knowledge of machine learning, predictive modeling, statistics, or uncertainty quantification
- Basic understanding of multi-objective optimization, Pareto concepts, or numerical optimization methods
- Experience with scientific documentation and structured evaluation of algorithms is beneficial
- Python, ideally including common data science and optimization libraries
- Very good command of English, written and spoken
- Structured operation , analytical thinking and an interest in technical



Identificação da vaga
REF93540N

Área funcional
Research and Development

Local
Hanover

Modalidade de trabalho
Onsite Job

Contato
Janina Fehervari

Pessoa jurídica
Continental Reifen Deutschland GmbH

optimization problems

- Proactive communication

Please attach your **current certificate of enrollment** and also your **current transcripts of records** and an extract of certificate for a mandatory internship. Those documents are mandatory for processing your application. If available, please submit your **valid residence permit as well as your work permit** including the additional sheet.

Applications from severely handicapped people are welcome.

O que oferecemos

We offer the following benefits:

- Fair compensation for your contribution: We know your work is valuable and want to make sure you are compensated fairly.
- Flexibility that fits your life: We offer flexible working hours with hybrid working models, giving you the opportunity to occasionally work from home - because we know how important the balance between personal and professional life is.
- Meaningful knowledge transfer: You will receive qualified support from our experienced professionals to develop your technical knowledge and practical skills.
- Saving made easy: Benefit from a wide range of discounts and special offers through our corporate benefits program, covering various brands - from fashion and leisure activities to technology products.
- Stay fit & healthy: We support you with initiatives focused on health and well-being, such as selected fitness and preventive care programs.
- More flavor, less cost: As a student, you receive an additional discount in our company cafeteria.
- 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.

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

Quem somos

Continental ist ein führender Reifenhersteller und Industriespezialist. Das 1871 gegründete Unternehmen erzielte 2025 einen Umsatz von 19,7 Milliarden Euro und beschäftigt aktuell rund 78.000 Mitarbeiterinnen und Mitarbeiter in 54 Ländern und Märkten.

Reifenlösungen des Unternehmensbereichs Tires machen Mobilität sicherer, intelligenter und nachhaltiger. Sein Premium-Portfolio umfasst Pkw-, Lkw-, Bus-, Zweirad- und Spezialreifen sowie smarte Lösungen und Dienstleistungen für Flotten und den Reifenfachhandel. Continental steht seit mehr als 150 Jahren für innovative Spitzenleistungen und ist einer der größten Reifenhersteller weltweit. Im Geschäftsjahr 2024 erzielte der Unternehmensbereich Tires einen Umsatz von 13,9 Milliarden Euro. Weltweit beschäftigt Continental in ihrem Reifenbereich mehr als 57.000 Mitarbeiterinnen und Mitarbeiter und verfügt über 20 Produktions- und 16 Entwicklungsstandorte.