technische universität dortmund

Institut für Energiesysteme, Energieeffizienz und Energiewirtschaft

One of the leading German university institutes in the field of energy systems, energy efficiency and energy economics, the ie^3, is looking for a highly dedicated student to actively work on scientific issues and to support us in organizational tasks in cooperation with our partners.

We are looking for a student assistant (m/f/d) in the research group *„Distribution Grid Planning and Operation"* with focus on energy system simulation

Your work includes:

- Independent and autonomous support of our research staff in one of our projects e.g. "Redispatch3.0"
- Supporting our research staff in the conceptual design, planning and implementation of the agent-based simulation tool "SIMONA" developed at our institute
- Independent execution of preliminary research, mathematical modelling and implementation in the programming languages Java or Scala

Your profile:

- You have successfully completed at least the first 2 semesters of your degree course, preferably in the field of computer science, electrical engineering or industrial engineering with a focus on electrical engineering
- You have a strong interest in agent-based modeling and programming and want to expand and deepen your knowledge
- Basic understanding of mathematical optimization algorithms for distributed agent based environments preferred (not required)
- You have good knowledge of the Java / Scala programming language (or the interest to learn it) and want to extend and deepen your knowledge
- You have a good knowledge of German and/or English

We offer you the opportunity to **work at the same level** as part of a **young, interdisciplinary team** of computer scientists and energy engineers, a **pleasant working atmosphere** and the possibility of **independent and flexible work organization**. Within the scope of an interdisciplinary research project you will have the opportunity to gain insights into electrical power engineering and grid simulation as well as into the field of agile software development (CI, DevOps) in order to broaden your knowledge and sharpen your professional profile at the interface of power engineering and computer science. Furthermore, we offer the possibility to gain **insights into the practice** of power engineering companies due to our close cooperation with practice partners within the research projects.

The vacant position is available immediately and limited until December 2023. It compromises approx. 10 hours per week. The organization of the working hours can be arranged on a flexible basis. A longer-term employment relationship is encouraged.

Please send your application incl. curriculum vitae and an overview of your grades to:

Contact: Daniel Feismann, M. Sc.
daniel.feismann@tu-dortmund.de
Building BCI-G2. 4. Floor, Room 4.31
+49 231 / 755 6783