Clarios Germany GmbH & Co. KG

Clarios is the global leader in advanced, low-voltage battery technologies for mobility. Our batteries and smart solutions power nearly every type of vehicle and are found in 1 of 3 cars on the road today. With around 18,000 employees in over 100 countries, we bring deep expertise to our Aftermarket and OEM partners, and reliability, safety and comfort to everyday lives. We answer to the planet with a rigorous sustainability focus – advancing best-in-class sustainability practices and advocating for them across our industry. We work to ensure 100% of our products sold are recyclable, and we recycle 8,000 batteries an hour in our network.

Lead Engineer Virtual Battery Model Development (m/f/d)

Your Power, Endless Possibilities.

City: Hannover; Starting date (earliest): At the earliest possible; Remuneration: According to Tariff

Working field

We are looking for a Virtual Battery Model Development Engineer to join our innovative team focused on developing virtual modeling solutions for advanced battery systems. The successful candidate will work collaboratively to define and implement user interfaces and improve existing modules, while also leveraging skills in electrochemical modeling, DevOps practices, and data management.

This role is based in Hannover, Germany.

Key Responsibilities: What you will do

• Develop and implement graphical interfaces using Python and PyQt to enhance user interaction and module integration.
• Collaborate with the team to define interfaces for user interactions and module connectivity.
• Identify opportunities for improvement within existing modules and graphical user interfaces.
• Implement enhancements to optimize performance and user experience.
• Apply new knowledge to improve modeling capabilities and system integration.
• Utilize electrochemical models to simulate battery behavior and performance.
• Support the integration of electrochemical models into virtual battery simulations.
• Manage DevOps processes, including version control with Git and CI/CD pipelines.
• Use MATLAB for data analysis and simulation tasks related to battery modeling.
• Manage databases and data queries using SQL to support simulation and modeling projects.
• Develop applications or automate workflows using MS PowerApps to enhance productivity.

Requirements

Knowledge, Skills and Abilities: What we look for

• Master’s degree in Computer Science, and/or an engineering field.
• Professional proficiency in Python coding, including experience with graphical interface development using PyQt.
• Proficient in MATLAB for data analysis and modeling tasks.
• Experience with DevOps tools and practices, including Azure DevOps, Git, and CI/CD pipelines.
• Experience with MS PowerApps for application development and workflow automation.
• Experience in creating and deploying REST APIs is beneficial.
• Knowledge of SQL for database management and querying.
• Understanding of electrochemical models and their applications in battery technology.
• Strong willingness to learn and adapt to new technologies.
• Excellent problem-solving skills and ability to perform tasks independently.
• Effective communication skills for collaborative team engagements, fluency in English and German.

What we offer

At Clarios, we offer people with drive and power many good reasons to join us:

• A diverse, global work environment that values inclusion and innovation
• Flexibility through mobile working and adaptable hours
• Competitive compensation, including a company pension scheme and additional benefits like company bike leasing or wellbeing programs
• Learning and development opportunities through our Learning Academy and Mentoring Program
• A modern office environment, team events, and a company kindergarten

Application

Submit your application through: https://clarios.wd5.myworkdayjobs.com/clarioscareers/job/Germany-Hannover/Lead-Engineer-Virtual-Battery-Model-Development_WD43103

Join Clarios - Leading the future of Energy Systems Solutions!

More information at https://stellenticket.de/195191/LUH/
Offer visible until 01/07/25