Uniper is a global energy company, is active in more than 40 countries around the world with the largest presence in Germany, Sweden and the United Kingdom, and is headquartered in Düsseldorf. Uniper has roughly 22.5 GW of power generation capacity (roughly equal to the total capacity of the Netherlands) and will be carbon-neutral by 2035. In 2023 almost 7,000 employees are working for the energy transition (EBITDA \( \sim \) EUR 1.8 billion).

Uniper’s Asset Management department at the headquarters has defined a central process on how to execute maintenance work on site, called PM/WCM (Plant Maintenance and Work Clearance Management). The Asset Management department has identified variations in the process execution across the power station fleet, and Uniper is interested in identifying the deviations between sites on effective measures (KPI’s), activities and recommendations to improve conformance. We would like to offer you a process mining project on this maintenance process. Recorded data from SAP can be used to apply existing process mining techniques on checking process conformance and comparing plants with each other.

Uniper uses Celonis, and the first task will be to compare the "should be"-process (documented in our process policy) with the current implementation (process conformance) and to review the calculation of KPI’s. Second, the processes will be compared to the normative model and one another using process mining techniques and stochastic process mining techniques. Third, the differences will be discussed with process owners and other stakeholders from Uniper to identify potential issues and potential improvements.

What Uniper offers
Uniper offers a working student contract with a monthly payment of EUR 900. The position is limited to 6 months (with an optional additional 3 months).

Pre-requisites
To apply for this project, you must demonstrably have experience with process mining. For instance, you have followed Fundamentals of Business Process Management, Introduction to Data Science, Business Process Intelligence or Advanced Process Mining. Preferably, you have done your seminar in the BPM or PADS groups. A monthly visit to Uniper’s headquarters in Düsseldorf is foreseen.

About the BPM group
The Business Process Management: Foundations and Engineering group is a new group in the Informatik faculty. The focus of the BPM group, led by Prof. Sander Leemans, is on the combination of data-based process analysis and the optimisation of processes in organisations.

How to apply
In an at-most 1-page A4 application, motivate what triggers you to pursue this opportunity, and indicate your prior experience with process mining, including relevant courses and your marks. Please send your application to [applications@bpm.rwth-aachen.de](mailto:applications@bpm.rwth-aachen.de). The starting date is no earlier than the 1st of October 2023.