Battery4Life is a research company at Graz University of Technology and, as a COMET Center, cooperates with industry and academia in battery technology innovation. Our goal is to make batteries safer, more efficient and sustainable throughout their lifetime.

We are looking for a motivated researcher in data-driven battery monitoring and prognosis, with a focus on extracting meaningful information from experimental and real-world battery data.

Researcher / PhD Candidate

Data-Driven Monitoring & Prognosis

(m/f/x)

Full-time (38.5 hours per week), Graz (on campus of Graz University of Technology)

Job profile

- Drive scientific advancements in **data-driven battery monitoring, safety assessment and prognosis**.
- Analyze **experimental and real-world battery data** to identify relevant patterns, anomalies and battery states.
- Develop and validate **data-driven and statistical models** for battery state estimation, degradation analysis and prognosis.
- Develop **data-processing, visualization and feature-engineering workflows** to transform complex battery data into meaningful information.
- Collaborate with industrial and academic partners, **publish research findings in scientific journals and present results at international conferences.**

Required qualifications

- Master's degree in **data science, mathematics, physics, electrical engineering, or a related field**.
- Experience in **data analysis, data processing, visualization, or statistical analysis**.
- Interest in applying data-analysis methods to **battery monitoring and prognosis.**
- Strong analytical and problem-solving skills with an interest in scientific research.
- Excellent written and spoken English. German knowledge is an advantage, willingness to learn is expected.

Desired qualifications

- Experience with **Python and data-analysis tools.**
- Knowledge of **battery technology and battery monitoring**.
- Experience with **time-series analysis, feature engineering, machine learning, or predictive modelling**.
- Interest in scientific research and motivation to pursue a **PhD**.

We offer

- Exciting research opportunities at the interface of **battery technology and data analytics.**
- The opportunity to work with **experimental and real-world battery data**.
- Mentorship and support for pursuing a parallel PhD.
- Opportunities for scientific publications, conference presentations and international networking.
- Flexible working arrangements and a collaborative, interdisciplinary environment.
- Full-time gross salary for this position is 4,148 Euro per month (14 times a year)

We value diverse perspectives and backgrounds and welcome applications from people with different academic, professional and personal experiences. If your profile does not match every listed qualification but you are enthusiastic about data-driven battery research, we encourage you to apply.

We look forward to receiving your meaningful and complete application (cover letter including motivation, CV, and references) by email to jobs@battery4life.at, reference: **ResearcherDataMonitoring**.

[Optimized Safety and Increased Sustainability of Batteries]