

Student Job Opportunities

Internships, SHK/HiWi, MSc/BSc/Diploma Thesis

1	Battery Data Collection and Processing Battery Data, Literature Research, Data Processing
<ul style="list-style-type: none">• Collect and assess battery data from different sources<ul style="list-style-type: none">• battery properties, characteristics• battery aging studies• data analysis• • Process battery data to be used in volytica environment• Testing <p>Beneficial Qualifications:</p> <ul style="list-style-type: none">• Basic battery knowledge• Experience with scientific literature• Image digitalization and data processing <p>Starting: anytime Location: Dresden/Remote</p>	

2	Software development, UI/UX Internal Services
<ul style="list-style-type: none">• Work on a modern UI stack• Extend existing Frontend Applications with new use cases• Take UX into consideration• Implement monitoring + error tracking <p>Beneficial Qualifications:</p> <ul style="list-style-type: none">• Front-end development• HTML/CSS/JS <p>Starting: anytime Location: Dresden/Remote</p>	

3	Data Engineering, Cloud Computing, NLP, AI Intelligent Assistants
<ul style="list-style-type: none">• Design and implement a chatbot application which<ul style="list-style-type: none">• Simplifies technical terms for non-experts• Explains insights about the battery KPI• Recommends actions dependent on the alerts• Guides users through the vdx dashboard.	

Beneficial Qualifications:

- Expertise in NLP and fine-tuning language models (LLMs).
- Experience in developing and integrating semantic search engines.

Starting: anytime**Location:** Dresden/Remote

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Software development, Data Analysis, Automation

Internal Tooling

- Develop and optimize existing tools and processes for efficiency
 - interactions with databases and APIs
 - data analysis
- Test and improve the performance of APIs

Beneficial Qualifications:

- any of Python/Java/Kotlin
- understanding of databases (relational and time series)
- understanding of API and web based development

Starting: anytime**Location:** Dresden/Remote

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Product development, systems integration

Demo/Showcase development

- Design a demonstrator of our services
- Build up a physical setup of the demonstrator for fairs and exhibitions

Beneficial Qualifications:

- Product Storytelling
- Affinity with tech products and devices

Starting: anytime**Location:** Dresden

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Software development, APIs, UI/UX

API development

- build UI based solutions for specific use cases based on APIs
- work together with the API team on extending and refining them

Beneficial Qualifications:

- Java / Python programming skills
- understanding of API and web based development

Starting: anytime**Location:** Dresden/Remote

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Quality Assurance, UI/UX

UI quality assurance

- evaluate and test tools for the QA of web UIs
- extend the existing quality assurance tooling for web UIs
- work together with the QA team on automation of processes

Beneficial Qualifications:

- knowledge of Grafana or comparable technologies
- HTML/CSS/JS

Starting: anytime**Location:** Dresden/Remote

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Cloud, Software development, Data Processing Learning

Data Processing Pipelines

- Evaluate tooling and frameworks for cloud based data processing pipelines
- Extend existing pipelines with new features
- Implement data quality monitoring
- Do performance testing

Beneficial Qualifications:

- Machine Learning
- AWS Cloud

Starting: anytime**Location:** Dresden/Remote