volytica diagnostics

Permanent Employment, Full Time (f/m/d)
Senior Battery Expert & Analyst

Dresden /remote, ab sofort

You got a few years (c. 2 at least) of **working experience with Li Ion Batteries**, in particular modelling and investigation of **degradation mechanism** and the involved electrochemical processes? You got a robust knowledge on the external influencing factors to phenomena like Li-Plating, capacity fade/resistance increase, kneepoint-onset, and the like? You are moreover eager to see your experience and **knowhow in practical action**, having a real impact on customers, politics and the environment - not only theoretically, but practically on Terrabyte of reallife battery data.
If so, we'd gladly welcome you in our team as a **Senior Battery Expert & Analyst**, supporting our algorithm development department for our scalable, automated battery analytics software platform.

Our Mission

We make the wear of the most expensive vehicle wear part, the battery, transparent. By unlocking valuable information in the field data that continuously accumulates during daily system operation, we enable our customers to develop more economical battery systems, reduce operational risks and establish after-use concepts (2nd-use).

We are an experienced team of engineers, battery experts and software developers and, as a spin-off of the Fraunhofer Institute for Transportation and Infrastructure Systems IVI, we work with state-of-the-art technology for a higher goal - more on www.volytica.com

Your Profile

Minimum Requirements

- ❑ Academic degree in the natural science domain, e.g. engineering, physics, (electro)chemistry, or - alternatively - equivalent practical experience
- ❑ At least 2 years of practical experience, ideally in a work environment, alternatively in a PhD or post-doc position
- ❑ Provable experience in Li-ion degradation domain, e.g. concepts such as Li-Plating, capacity fade/resistance increase, kneepoint-onset are well known to you
- ❑ Advantageous are experiences in (short-term) time-domain modeling of Li-ion batteries (e.g., with ECM models and/or using AI)
- ❑ It is a must that you are familiar with a programming language (e.g. Python or Matlab), or that you at least are eager to deepen your knowledge here
- ❑ Expert language proficiency in English, German or both

Beneficial Experiences

- ❑ Experience with the cloud, such as AWS, Azure, and/or Google
- ❑ Experience with concepts and limitations of AI/machine learning
- ❑ Experience in leading teams is advantageous

Why should you join

- ❑ At vdx you are part of a dynamic and ambitious team of juniors and seniors that works together on the technology for tomorrow
- ❑ Modern cloud technologies, electromobility and lithium-ion batteries, IOT, IAC and Industry 4.0: these are no marketing platitudes for us
- ❑ Your strengths and interests determine your development potential - we place great value on individual personality and skill development
- ❑ In the center of Dresden we offer you a workplace with a pleasant, modern atmosphere - and we subsidize your mobility!
- ❑ Flexible work scheduling - we take your individual situation into consideration and make it possible to work in a family-friendly manner. This includes optional home office and remote work

Send applications to jobs@volytica.com

CV, concise cover letter, if applicable references

For further inquiries

jobs@volytica.com | +49 351 87 95 87-00