



Internship / Thesis

Task

At the BMW Group, you will find a diverse and interesting range of tasks with the opportunity to work out solution proposals independently. You will support a highly motivated team in the pre-development of Lithium-Ion-Cells for Battery electric vehicles. We are offering you an internship or Thesis on the following topic:

Developing of a Database for a Decision support System in the field of the Lithium-Ion-Cell production.

The process chain for the production of Lithium-Ion-Batteries consists of a series of sequential steps and is characterized by complexity. On the one hand, cause-and-effect relationships within the process steps can be described by experts. In addition, novel methods of data analysis will be used to quantify cause-and-effect relationships, for example by using mathematical models. Within the scope of the work, a database will be created in which the expert knowledge and various results of the data analytics can be brought together. The challenge is to develop a generic structure that allows process steps to be adapted as well as expert knowledge or mathematical models to be complemented. The database forms the basis for a decision support system that will be applied in the production level to assist in the decision making process.

The topic can be adjusted in consultation with the supervising university.

Qualification and Experience

- Studies in the field of Informatics / Software Engineering / Computer Science or similar
- Good SQL, R, VBA
- You are able to work independently and responsibly. You have very good organizational and communication skills. You are a team player, that is characterized by the courage to think outside the box.

Start

The beginning can be adjusted in consultation with you. Full-Time. 6 months.

Contact

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