

Digitalization in battery production

Date and time: 21 October 2021 – 10:00am -12:00pm

Digitalization is a trend in the industry enabling companies to use previously inaccessible potential and realize time and cost savings. More and more companies are approaching digital solutions and smart factories to be successful and competitive in the future. Especially in battery production, process steps influence each other and the final product, making digitalization a key enabler for a more efficient production and process understanding. By digitizing the production, the process parameters can be collected and processed timely and accurately. This virtual training will use the cyber-physical production system as a central topic to lead through the opportunities and challenges of digitalization in the battery production. This training is beneficial to engineers, chemists, researchers, and scientists interested in this topic.

Learning outcomes

This virtual training empowers you to:

- develop knowledge on the potential and diversity of the presented methods using the example of a cyber-physical production system
- assess challenges and opportunities associated with the battery production regarding digitalization problems
- learn the methodology to enable the realization and advancement of industry 4.0 in the context of battery production
- transfer the presented methods to your own topics and objectives

Who are the experts?



Jacob Wessel, completed his school education in Braunschweig, Germany and Chattanooga, USA. In 2010 he started his Bachelor's in Industrial Engineering at the Technische Universität Braunschweig. After which he continued with his Master's at the Technische Universität Braunschweig and the Universidad Andres Bello in Santiago, Chile. In 2018 he started working for the Open Hybrid LabFactory, a research center of the TU Braunschweig, as Project Manager Internationalisation. In 2019, he joined the Institute for Machine Tool and Production Technology (TU Braunschweig) as a research assistant, working on projects in the area of digitalization of manufacturing chains.



Aleksandra Naumann, works as a research assistant for the Institute of Machine Tools and Production Technology at the Technische Universität Braunschweig in the field of digitalization in battery manufacturing since 2021. She completed her Bachelor's degree in Biochemical, Chemical and Pharmaceutical Engineering at the Technische Universität Braunschweig in 2019. Afterwards, she continued with her Master's in Chemical Engineering at the Technische Universität Braunschweig and University of Rhode Island, where she completed her Dual Degree in 2020.

