Bachelor-/Master thesis  
*Beginning of line testing of cells for heavy duty truck batteries*

**Initial situation:**

In the LiVe project, a novel battery system has been developed with pouch cells and prototypes of heavy-duty trucks (BEV, HEV, high voltage line connection) are being built. In this context, a testing protocol must be developed for the quality testing of the battery cells before being mounted into the battery modules.

**Objective of the thesis:**

(1) Review the literature about end-of-line testing of battery cells and beginning-of-line testing of battery modules  
(2) Develop a testing protocol on the Basytec battery tester to test the incoming cells, which is comprehensive enough to detect potential problems but quick enough to be used on every cell in an industrial environment  
(3) Perform the tests and analyze the data

**Requirements:**

- Understanding of the underlying technical problems and creativity  
- Willingness to learn test methods and interface of the Basytec battery tester  
- Interest in electric mobility  
- Motivation and effort  
- Capability to both work independently and in team

**What is offered:**

- Comprehensive supervision  
- Relevant problems to the industry  
- Knowledge in the development of electric powertrains

**Have we sparked your interest?**

Please send your transcript of records, CV and certificates to the e-mail address below.

**Your contact person at PEM:**

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