

Job description

ABEE is looking for a highly committed person to undertake the role of 'Battery Mechanical Design Engineer'.

Main objectives

- Battery system structural design, CAD, CAE, crush safety, component integration, and vehicle mechanical, thermal and high voltage electrical interface.
- Define pack and cell requirements, and find the best options for product volume, weight and run time requirements.
- Mechanical integration of battery cells, electromechanical components and hardware.
- Test batteries at the module level and at the system level.
- Work with safety, reliability, operations and other cross functional partners to integrate the battery into the final system.
- Good understanding of Design for Manufacturability (DFM), Design for Assembly (DFA), statistical tolerance analysis techniques, functional dimensioning, and geometric tolerancing.
- Battery related product development cycles from design to manufacturing.

Skills

- MS or PhD in Mechanical Engineering, automotive, thermal or a related field.
- 5+ years' experience in battery mechanical design
- Knowledge of Li-ion cell chemistry and the various processes involved in manufacturing lithium ion battery packs.
- Experience with battery protection modules and safety standards.
- Experience in battery pack interconnection design, thermal management, and safety.
- Proficiency in conceptual and detailed mechanical design and extensive 3D CAD experience.

What We Offer:

- Permanent contract
- On the job training
- Competitive salary package
- A dynamic and challenging multicultural work environment

Place of employment: Belgium, Diegem

Starting date: September 2022

Duration: full-time, permanent