



ASTON MARTIN



CAE Simulation – Battery/Hybrid Strategy Simulation Engineer (M/W/DIV)

Aston Martin is built upon the passion, skill and creativity of the people who dedicate their working lives to the most iconic brand in the world. Every intricate stitch, beautifully expressed line, and the stirring noise of our engines is a manifestation of the desire and collective spirit to create the most beautiful cars: the soul of Aston Martin made real.

Job Purpose: Develop the Hybrid Strategy of our future programs. Deliver engine and battery virtual validation simulations to optimize and analytically prove product attribute targets. Coordination battery / engine / drivetrain simulation and virtual validation planning externally and internally.

Key Responsibilities & Tasks:

- Support the development of a hybrid strategy for upcoming high performance cars and optimize the hybrid operation strategy.
- Develop simulation methodologies and carry out necessary cell, module and battery pack electro-thermal simulations to support all AML battery projects
- Build RCR element cell models from cell measured/supplier data, these represent the dynamic electrical characteristics of relevant cells
- Generate/support reduced order module/pack battery models that can be integrated in system level simulations (drive cycle etc)
- Provide simulation input to battery pack DVP activities, with the aim of structuring the virtual validation activities
- Represent the simulation team within AML project meetings
- Integration of system level (drive cycle, vehicle cooling, BMS strategy) models into module/pack levels simulations through FMUs
- Coordination and tracking of external service providers and report regular update on timing, costs and project progress

Qualification & Experience:

- Mechanical Engineering Degree or equivalent qualification
- Strong background in powertrain development
- Experience in: StarCCM+, GT-Suite, Siemens NX
- Significant experience in battery and driveline simulation
- Close collaboration with design and testing teams
- Working within an OEM environment
- Ability to provide technical direction to the project design engineers and calibration engineers
- Knowledge of materials used in the high-performance automotive or aerospace sectors, e.g. aluminium
- Fluent German, both written and spoken, and very good knowledge of English

Package

- Become part of the team that will build Aston Martin Germany
- An attractive salary
- Location Stuttgart area
- Company pension scheme
- Company performance bonus scheme
- ...and much more

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We look forward to receiving your application at astonmartin@humanexx.de