



HIGHLY CHARGED DEVELOPMENT AND VALIDATION

Lotus Engineering is leading the way in the fast-moving development of hybrid and electric vehicles, utilising a wide range of virtual and physical testing from the component level to the vehicle level, across the entire development process. Our extensive powertrain development facilities in Europe and North America are constantly expanding to meet the increasing demands of powertrain electrification.

As an engineering consultancy and manufacturer of premium cars designed to excite and perform, our breadth of technical knowledge is unrivalled. Our multi-skilled engineers and technicians have extensive experience in developing a wide range of electrical and mechanical drivetrain systems.

Lotus Engineering is dedicated to meeting our clients' programme objectives on time, every time.



DRIVETRAIN DEVELOPMENT

- Whole drivetrain development
- Inverter and motor characterisation
- Electric motor development
- Drivetrain durability testing
- Component and subassembly testing
- Drivecycle simulation

RANGE EXTENDER DEVELOPMENT

- Combustion engines and hydrogen fuel cells
- Efficiency mapping
- Series hybrid control strategy development
- Power quality analysis
- Thermal mapping

BATTERY SIMULATION, DEVELOPMENT AND BUILD

- Design for manufacture, build and testing in a dedicated safe environment
- Emulation of high performance batteries
- Simulation of high voltage 800 V DC
- Optimisation and evaluation of electric modules and power electronics

VIRTUAL DEVELOPMENT

- Model, software and hardware in the loop testing
- Model based development correlation with test data and system characterisation

