JOB DESCRIPTION FORM

IDENTIFICATION								
Job Title:	Senior Battery Engineer							
Unique Job Code	CPL-SE003	Date	12-11-2021					
Business Area	Engineering	Work Time	Full Time (Flexi)					
Contract Type	Permanent	Location	Bengaluru (Bangalore)					

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ROLE

The Senior Battery Engineer will be responsible for delivering Lithium-Ion battery designs for a variety of automotive and high-performance applications. Batteries may be for external clients or for internal Coexlion projects. The Senior Engineer will take end to end responsibility of the battery mechanical design, electrical design, charger, and vehicle software integration. The Engineer will be responsible from concept initiation into design validation stage.

The Senior Battery Engineer will be an integral part of the global engineering team and will work closely with their colleagues in the UK and India to deliver engineering solutions that meet overall project requirements cost, quality and program timing. Responsibilities will include breaking project level requirements into component and system level target specifications, and managing the progress to the targets, escalating any critical deviation when appropriate.

The successful applicant will be expected to bring domain specific knowledge of Lithium-Ion battery design, preferably in the automotive domain.

The Senior Engineer will report to the Technical Director. Although the Senior Engineer will not have people directly reporting to them, they are expected to assist more junior colleagues, through coaching and guidance. Senior Engineers may be required to prioritise and manage the workload of more junior team members and 3rd party contract workers.

At various stages of the project a Senior Engineer may be the lead person for coordinating off-site work with styling and engineering design houses, both within India and overseas.

KEY TASKS & ACCOUNTABILITIES

- Plan deliverables in terms of budget, resource allocation and timeline.
- Manage programs and escalate appropriately when there is a risk of deviation to Cost Time or Quality.
- Coach and develop less experienced colleagues.
- Generating new concepts, with a focus on achievable innovation.
- Responsible for breaking project requirements down to component and system level specifications.
- Ensure engineering principles and calculations are rigorously applied.
- Where required, support production with face-to-face contact with the vendor base.
- Define robust validation plans that satisfy DFMEA requirements for their systems and component areas.
- Contribute to sustainable processes and documentation of standards and best practices.
- Document and report in a robust and professional manner.
- Be familiar with global legislation regarding automotive lithium-ion batteries.
- 3D CAD design, adhering to best practices for parametric modelling.
- 2D drawing creation in line with international drafting standards.
- Use of CAE for structural and thermal analysis.

REQUIREMENTS

KNOWLEDGE, SKILLS & EXPERIENCE

- Experienced design engineer, working for an automotive OEM or Tier 1 supplier.
- Prior EV experience is a must.
- 6 years of professional experience. With a minimum of 3 years domain knowledge in Lithium-ion batteries, and their integration into complete power systems.
- Experience of BMS Design or specification including software protocols for BMS integration.
- Familiarity with international drafting standards and GD&T.
- Familiarity with DFM/DFA/DFS requirements.
- Ability to conduct a DFMEA of complete power systems and provide risk mitigation solutions.
- Familiarity with main cost drivers and Value Engineering opportunities in batteries.
- CAD proficiency in Creo is an advantage.
- Experience of thermo/electrical CAE.
- Knowledge of compliance and electrical insulation considerations, including creepage, clearance distances, flammability ratings etc.
- Proficient with Matlab/Simulink
- Working knowledge of other engineering disciplines such as cell design, electrochemistry and power electronics is an advantage.
- Experience of external quality standards, ISO16750 LV124 & LV148.
- Familiarity with requirements of functional safety standard ISO26262.
- Experience of the homologation process for HV batteries and vehicle EMC compliance requirements.

QUALIFICATIONS

- Bachelor/Dual Degree/Mtech in a related engineering discipline from a well-established college.
- Practical skills and hands-on experience are both highly valued in your application.
- Participation in Formula Student, Formula SAE, SAE Baja India or similar competitions is highly valued.

PERSONAL ATTRIBUTES

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The successful candidate will have a passion for engineering. We are not looking for 9am to 5pm engineers who leave their engineering enthusiasm in the desk drawer at the end of the day. If you go home at the weekend and spend your time maintaining / modifying your own car/bike; or if you spend your spare time racing or rallying; or even if you are an avid F1 fan and you read all the technical insights; then you are our kind of person. We believe that innovation comes from a cross pollination of ideas. You won't find anything new in a textbook, so we want you to be out there trying new things. If you join our team, we won't shackle you to a desk and crush these dreams, we will actively encourage and support you where we can.

VALUES

Coexlion delivers 'Excellence through collaboration.' The core values below inform how we think, behave, and deliver this engineering excellence. We are looking for candidates who naturally align themselves to these coordinates.

- COLLABORATION

We are a team. Our engineers are not judged on their individual contributions, but on the positive effect that they have on those around them.

COEXIST

We Coexist with Nature; we believe in a future where the pursuit of technical advance is not at the expense of the environment. We strongly believe in the coexistence of humanity; we are a multicultural, global company. We welcome and respect everyone equally.

- ACCOUNTABILITY & TRUST

We stand for honesty and integrity. We trust our employees to take responsibility for their own conduct and deliverables. We show this through flexible working patterns and absence of "clocking in." In turn we expect self-motivated, punctual, and dedicated team members.

- ACHIEVING

We get things done. We don't sit in meetings, passing the buck, talking over the issues. We own the problems; we take action, and we get it done.

EXCELLENCE

Our solutions are not quick fixes or short-term gains. We take the long-term view, and we do it right. We take pride in doing things well. We aim to be the best.

- INNOVATION & EFFICIENCY

Every decision we take we ask ourselves; Can it be better? Is there waste? How can we be more efficient? This drive for improvement fuels our innovation.

DISCLAIMER

A large part of Coexlion is client driven, therefore responsibilities and accountabilities may from time to time change to meet client requirements.

This job description may not detail some duties allocated to the post holder, nor cover duties of a similar nature, commensurate with the role, which may from time to time be required by the relevant manager.