



JOB DESCRIPTION FORM

IDENTIFICATION			
Job Title:	Mechanical Engineer		
Unique Job Code	CUK-ENG002	Date	31-01-2023
Business Area	Engineering	Work Time	Full Time (Flexi)
Contract Type	Permanent	Location	Warwickshire*

*See Disclaimer Section

PURPOSE

ROLE

The Mechanical Engineer will be responsible for delivering vehicle components. Both for external clients and for internal Coexlion projects. Projects will be predominantly in the domain motorcycles and scooters, and electric powertrains. The Engineer will take end-to-end responsibility of their component area, from concept initiation into design validation stage.

The Mechanical 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 understanding requirements at component and system level, and how they related to target specifications. The Mechanical Engineer, will manage their own progress to targets, escalating any critical deviation when appropriate.

The successful applicant will be expected to bring a sound understanding of engineering principles. Ideally the candidate will have held an engineering design position or, an engineering related role in an automotive business that will have given exposure to one of the following system areas: Brake systems, suspension systems, chassis structures, plastic bodywork, sheet-metal bodywork, lighting, seating, transmission or vehicle integration.

The successful candidate will be self-motivate, with a hunger and ability to learn about new areas. They should show a flexibility and a desire to work across different domains and at a vehicle level.

The Mechanical Engineer will report to the Managing Director (UK), and will also receive guidance and input from the Technical Director (India).

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

KEY TASKS & ACCOUNTABILITIES

- Plan their own deliverables in terms of budget, resource allocation and timeline.
- Manage their deliverables and escalate appropriately when there is a risk of deviation to Cost Time or Quality.
- Generating new concepts, with a focus on achievable innovation.
- Responsible for understanding component and system level specifications and how they relate to project requirements.
- Ensure engineering principles and calculations are rigorously applied.
- Where required, support production with face-to-face contact with the vendor base.
- Ensure validation plans are rigorously applied in order to satisfy DFMEA requirements for their component areas.
- Contribute to sustainable processes and documentation of standards and best practices.



- Document and report in a robust and professional manner.
- 3D CAD design, adhering to best practices for parametric modelling.
- 2D drawing creation in line with international drafting standards.
- Use of CAE for structural analysis and optimisation of designs

REQUIREMENTS

KNOWLEDGE, SKILLS & EXPERIENCE

- Mechanical Design Engineer. Ideally working for an automotive OEM or Tier 1 supplier.
- 2years plus of Engineering design knowledge or
- 2 years plus of an Engineering related role in an automotive OEM or Tier 1 supplier.
- Familiarity with international drafting standards and GD&T.
- Familiarity with DFM/DFA/DFS requirements.
- CAD proficiency in Creo is an advantage.
- Prior EV experience is an advantage.
- Specialist knowledge in any of the following areas is an advantage:
 - Plastic moulding design
 - Steel fabrications
 - Brake systems
 - Suspension systems
 - Automotive lighting
 - Automotive seating
 - Transmission & gear design
- Experience of working at vehicle level is an advantage.
- Experience of Matlab Software is an advantage.

QUALIFICATIONS

- Bachelor/master's degree qualification in a Mechanical Engineering discipline. 2:1 grade or above. Or
- Degree equivalent HND plus automotive engineering design experience.
- Practical skills and hands-on experience are both highly valued in your application. (whether gained professionally or through personal interests)
- Participation in Formula Student, or similar design and make competitions is highly valued.

PERSONAL ATTRIBUTES

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 karting or racing RC cars; 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. We are a customer facing organisation and an ability to present ideas and communicate in an enthusiastic, professional and confident manner our positive attributes.



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 multi-cultural, 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.

Job location will be in the Coventry and Warwickshire area (office location to be finalised). There may be requirements to work on site at the client's premises for some assignments. Any additional travel outside of the local area will be compensated for.

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.