

# Job Description – Lead Mechanical Engineer

**Job title:** Lead Mechanical Engineer

**Salary:** Negotiable dependant on skills and experience.

**Reporting to:** Technical Director

**Site:** Vigo Centre, Birtley Road, Washington, Tyne & Wear, NE38 9DA

**Department:** Smith Electric Vehicles



**Main purpose of job:** Required to work as a lead with a team of engineers to deliver the Mechanical Engineering required to manufacture electric vehicles from concept to customer.

## Key responsibilities:

- Owner/developer of platform BOM in cooperation with PDM manager
- Initiator of design changes in cooperation with PDM Manager
- Lead for mechanical design activities for new and current vehicles and vehicles in the field, in close cooperation with electrical engineers.
- Owner of platform tasks and issue list.
- Project lead for customer specific options.
- Owner of technical platform documentation (manual/data sheets).
- Point of contact for technical discussions with base vehicle manufacturer.

## Knowledge, skills & experience required:

- Excellent skills in 3-D CAD- both in solid modelling of parts and assemblies, and also production of working drawings for manufacturer (SolidWorks training and experience is preferred, but other 3-D experience such as Solid Edge, Pro-Engineer is also acceptable as conversion training can be provided if necessary).
- Familiar with surface modelling.
- A thorough understanding of stress analysis, mechanics of materials and the behaviour of components and structures under both static and dynamic loading.
- Significant post-graduate work experience e.g. in design of high performance fabricated components, structures and assemblies, machine design, automotive/specialist vehicle design, or engineering consultancy.

## Qualifications Required:

B Sc, B Eng or M Eng degree in Mechanical Engineering (or closely related subject)



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