

Job Description: Simulation Engineer (Involute Gear Design Focussed)



Department: Design

Job role overview: Simulation Engineer to carry out analysis within the simulation team.

Report to: Specialist Team Leader – Simulation

Location: F2

As part of the continued expansion of Simulation within Triumph an additional simulation position has been created for applications from within Triumph only.

This position involves (primarily) carrying out design and simulation on gear teeth and may include other simulation such as FEA and CFD on both chassis and powertrain components/systems. It would suit a talented engineer with excellent analytical skills. Entry level for the position is based on experience.

Duties and Responsibilities

- Design and Analyse Involute Gear Teeth for both durability and noise.
- Carry out other simulation analysis as required such as FEA, CFD etc. using various software to support and optimize motorcycle design on new and existing projects.
- Develop analysis methodology and ensure it is kept fully up to date and documented in the appropriate procedure(s).
- Ensure a consistent approach is taken to simulation modelling through close co-ordination within the simulation team and across all the vehicle teams.
- Continuous improvement to advance design procedures, best practice and efficiency improvements
- Generate procedures, technical reports, specifications and drawings etc
- To undertake and assist with projects as required by your Manager.
- Any other ad-hoc duties as required by your Manager.

**Person Specification:
Simulation Engineer
(Involute Gear Design Focussed)**



	Essential	Desirable
Qualifications and Attainments	Degree in Mechanical Engineering or equivalent	
Professional Experience and Skills	<p>Proficient in Microsoft Packages including Excel, Word and Outlook.</p> <p>Excellent computer and analytical skills</p> <p>Experience in Involute gear design and analysis.</p>	<p>Experience in FEA simulation and stress/fatigue analysis.</p> <p>Experience with SMT MASTA software is an advantage.</p> <p>Experience with Creo Simulate FEA software is an advantage.</p> <p>Experience in motorcycle design is an advantage but not essential</p>
Personality and Motivation	<p>Self-motivated and resilient.</p> <p>Flexible and adaptable.</p> <p>Able to take instruction and work under pressure to tight deadlines and agreed timescales.</p> <p>Excellent communication skills, clear and concise written and verbal skills</p> <p>Pragmatic and logical problem solving skills.</p>	
Appearance and Characteristics Circumstances	<p>Well-presented and professional in approach.</p> <p>Flexible on working hours.</p> <p>Willing to undertake UK and Overseas travel if required.</p>	