

JOB DESCRIPTION

Technical Specialist (Transmission Mechanics)

Reporting To	Engineering Manager
Line Management	None
Budget Management	None

Main Purpose

Responsible for the analysis and optimisation methods used in the Mechanical Engineering function. Using both Finite Element Analysis and Moving Particle Semi-implicit methods to enable our engineering teams to deliver Multi-objective Optimised solutions to complex Structural, Thermal and Fluid-dynamic problems.

Supporting the Head of Mechanical Engineering and Chief Technical Specialist in the development of DSD's transmission mechanics capability and reputation. Using specialist skills and industry experience in this area to solve problems and create innovative solutions within projects. Developing the skills and techniques of a 20+ strong team of mechanical engineers.

Supporting, coaching and mentoring engineers working on interesting and challenging projects for a wide variety of customers, markets and sectors to ensure they are using the most appropriate methods.

Contributing to the technical strategy of the company and defining research projects to enhance and validate our methods of tomorrow. Working with customers to understand market needs and develop technical relationships. Delivering technical papers, white papers, press releases regarding the company's progress in your field.

Key Responsibilities

- Working with the Chief Technical Specialist and Head of Mechanical Engineering to create a clear vision of industry trends and relevant technical research in your field of expertise
- Validation of new toolsets through experimentation and analysis, increasing the breadth and depth of knowledge within DSD
- Generating innovative technical approaches, where appropriate, to meet customer and industry level challenges
- Planning and leading problem-solving activities, able to develop novel methodologies

- Leading the development of technical skills and methods of colleagues within your field through coaching and mentoring
- Promoting a knowledge sharing environment and encouraging a passion for learning
- Generating opportunities to develop you own skills and competence
- Within your field of expertise
- Managing project teams both technically and organisationally and utilising the specialist skills of other effectively
- Taking key technical decisions
- Leading by example in behaviour and skills and methods, able to adjust leadership style where appropriate
- Managing and delivering projects successfully using DSD's tools and best practices
- Creating project plans, managing risk, technical value, finances and progressing DSD's strategy where appropriate
- Maintaining and progressing relationships with customers, communicating effectively and in a timely manner
- Preparing and delivering presentations to a wide range of interactive audiences both internally and externally adapting style where appropriate
- Maintaining and enhancing working relationships, dealing with new and changing interpersonal situations

General Responsibilities

- Work collaboratively with colleagues, clients and stakeholders
- Actively contribute to the team ethic
- Communicate actively and effectively, internally and externally
- Develop personal skills and capability
- Exhibit a passion for learning and facing new challenges
- Adapt to the needs of a growing and developing business
- Participate in internal and external training
- Be fully aware of and activity complying with DSD's policies and procedures
- Follow DSD technical best practices in project management, quality, communication etc.

The statements above are intended to describe the general nature and level of the role. They are not to be construed as an exhaustive list of responsibilities, duties and skills of the role holder. Furthermore, they do not establish a contract of employment and are subject to change at the discretion of the employer.

How to apply

Please send your CV and Covering Letter to Catherine Comber, HR Assistant
Email: catherine.comber@drivesystemdesign.com

PERSONAL SPECIFICATION

Experience	
Criteria	Essential (E) OR Desirable (D)
Recognised as an expert in your field of expertise	E
Engineering in a drivetrain or powertrain related business	D
Delivery of technical papers at respected conferences/seminars	D
Mechanical integration of electric machines and electronics into drivetrains	D
Working in an engineering consultancy	D

Skills and Abilities	
Criteria	Essential (E) OR Desirable (D)
Seasoned user of relevant design, analysis and simulation software packages	E
Excellent analytical and numeracy skills	E
A creative, logical approach for generating new ideas and solving problems	E
Excellent verbal and written communication skills	E
High standard of personal management	D
A good level of commercial acumen	D
Experience in related software e.g. HyperWorks Optistruct	E
Experience in engineering simulation: 1D and 3D dynamic modelling	D
Established leadership mentality	D

Qualifications	
Criteria	Essential (E) OR Desirable (D)
Relevant mechanical engineering degree or related subject (2:1 or above) OR equivalent experience and track record	E
Additional professional qualifications (e.g. CEng)	D