

<b>Job title:</b>	Test and Development Engineer
<b>Department:</b>	Test and Development
<b>Reports to:</b>	Test and Development Team Leader
<b>Responsible for:</b>	Test and Development activities relating to DE Refuse Collection Vehicles
<b>Location:</b>	DE Warwick
<b>Hours of Work:</b>	08:00 to 16:30 Monday – Thursday, 08:00 to 13:00 Friday
<b>Closing date:</b>	

### Our values:

We are part of the Terberg Environmental Group that has roots going back to 1869, part of the larger Terberg Group that is still family-owned. All employees of our organisation are asked to represent our core values in all their business dealings, and candidates are required to demonstrate their understanding and commitment to representing these values. Our core values are Customer Focus, Entrepreneurial Spirit, Flexibility, Innovation, Integrity, Quality and Sustainability.



### Job Purpose:

To prepare for, conduct and report test and development activities of vehicles, bodies and rigs to validate product design. Responsible to deliver Design Validation Plan (DVP) activities & to provide technical advice and coordination on company projects.

### Main Duties and Responsibilities:

- Create test plans, instrumentation requirements, configure loggers and carry out tests to required company or legislative standards.
- Collect test data and post process results to support test and analysis activities.
- Generate test reports clearly outlining the key characteristics so the salient points can be clearly presented to upper management.
- Ensure DVP activities are completed on time and within budget.
- Continuous improvement of test techniques and capabilities.
- To develop and standardise test procedures and maintain test standards library.

### Quality & Environmental Responsibilities:

Responsible for the management, compliance and upkeep of the quality & environmental procedures, records, and documents relevant to the role.

Dennis Eagle Ltd is an equal opportunities employer and we welcome applications from all candidates.

If you have any queries or would like to apply for the role, please contact Alice Walden  
[alice.walden@dennis-eagle.co.uk](mailto:alice.walden@dennis-eagle.co.uk)



Criteria	Essential / Desirable
<b>Knowledge</b>	
• Execute internal/external tests and validation activities	E
• Progress Design Validation Plan (DVP) activities effectively within agreed deadlines	E
• Ability to select most appropriate method of test, specify and source test equipment.	E
• Strong understanding of instrumentation set up and theory including, Strain Gauges, load cells, displacement transducers (pots & LVDTs), Accelerometers (AC & DC), thermocouples, pressure transducers, flow meters, microphones	E
• Use of HBM QuantumX and Vector DAQ system and familiar with associated software	E
• Use of data analysis software for post-processing test data (such as NI DIAdem, Matlab, CATmanAP, nCode)	E
• Taking CAN logs, reading and interpreting CAN data (J1939 knowledge)	E
• Compile technical reports in a concise and timely manner	E
• Methodical approach to troubleshoot and diagnose technical issues.	E
• Ability to understand and extract information from engineering standards, e.g. EN, FMVSS, ECWVTA	E
• Understanding of vehicles structures, vehicle dynamics and systems e.g. electrics and hydraulics	D
• Understanding of legal requirements for vehicle and body systems	D
• Automotive gateways and deliverables at these gateways	D
• Knowledge of Vector VN1600 Range, GL Logger Range	E
• Capable of scripting to automate test data processing.	D
• Proficient in Microsoft Office 365, Teams and SharePoint	E
<b>Experience</b>	
• Electric vehicle test and validation experience	E
• Coordination of test projects from concept through to completion.	E
• Experience of problem solving tools and methodology (Six sigma, 8d, 5Y)	D
• 3 years minimum relevant experience	E
• Truck or related product (i.e. off highway or automotive)	D
• Working with external test bodies e.g. MIRA, CSA etc..	D
<b>Education / Qualifications</b>	
• Minimum degree qualified in Engineering or equivalent, if no degree then candidates with equivalent experience will be considered	E
• Member of recognised engineering institution e.g. IMechE	D
<b>Job-related skills &amp; abilities</b>	
• Ability to communicate at all levels within the business	E
• Working cross-functionally across different teams to test, develop & diagnose	E
• Must be able to instrument all areas of a truck	E
• Strong organisational skills with attention to detail	E
• Ability to provide sound, reasoned proposals/resolutions for further product improvement	E
• Must have the ability to analyse results, root cause analysis, propose/present resolutions based on findings	E
• Test rig design and development	E
• Dynamic risk assessment and decision making	E
• Strong fault diagnosis/root cause analysis skills	E
• First point of contact for tests, must be able to react and resolve issues effectively whilst ensuring timing plan/costs are not compromised	E
• Proactive approach, enthusiastic and organised, which is a pre-requisite in a busy testing environment	E

• Able to work well under pressure simultaneously on various projects to tight deadlines	D
• Ability to work in a multi task environment	E
• Proactively manages work load and time scales against project objectives	E
• Self-initiative and strong desire to learn new skills and/or create innovative test methods	E
• Work efficiently and productively in independent and team settings	D
• Deputise for line manager in meetings as and when required	D
• Processing large datasets to extract key metrics	D
• RLD DAQ	D
• NVH Testing	D
• Structural Durability testing	D
• Analysing NVH Data	D

<b>Other requirements</b>	
• Willingness to work at suppliers/customers site as per the business/departmental requirements	E
• Occasional overtime	E
• Full driving licence	E
• Occasional overseas visit	E

Please note that you may be asked to carry out tasks other than the above that are deemed by your manager to be appropriate, reasonable and within the remit of your role. You will be expected to carry out these ad hoc tasks as requested.

Employee name \_\_\_\_\_ Employee signature \_\_\_\_\_ Date \_\_\_\_\_

Manager name \_\_\_\_\_ Manager signature \_\_\_\_\_ Date \_\_\_\_\_

