

CANDIDATE SPECIFICATION



JOB TITLE	Principal Product Integrity Engineer
REPORTING TO	Product Integrity Manager
DEPARTMENT/SUB DEPARTMENT	Engineering, Product Integrity
LOCATION	Southend-on-Sea
OVERALL PURPOSE	
To provide product integrity support, and specifically stress and reliability support, across galley and seating product development programmes to ensure robust and timely delivery in support of research, development, qualification and production.	
PRINCIPLE ACCOUNTABILITIES	
<ul style="list-style-type: none"> • Responsible to the Product Integrity Manager for the status of all product integrity activities, • Responsible for stress, simulation, reliability and other staff as assigned to the team, • Manage and direct the stress, thermal management and reliability activities in support of all galley and seating programmes, • Preparation of technical data required in order to support programme technical documentation requirements (e.g. stress reports, reliability reports, test plans etc.), • Maintenance of schedules and resource plans to support the design and in-service assessment and ongoing enhancement of product integrity, including but not limited to: structural analysis, thermal management, reliability analysis and system safety analysis. • Maintenance and development of in-house technical capabilities and tools required to support ongoing product integrity improvements, including but not limited to: FEA, CFD, reliability, analysis, material selection, • Identification and management of external resources to support product integrity activities as required, • To assist programming and engineering teams with the creation of qualification and verification test plans and to support programme and design reviews as appropriate, • Customer and departmental liaison, as appropriate, • Participation/leading of team meetings, • To identify and assist in the training and development of personnel, • To assist in identifying methods for continuous improvements, • Responsible for ensuring that the working environment is safe for the activities to be carried out and that employees are working in a safe manner, • Responsible for ensuring that all Company Health and Safety policies are being correctly observed, • To ensure all Company rules and regulations are met and to initiate appropriate corrective action and/or the Company disciplinary procedures when required. <p>In addition to the above you may be required to perform other duties as reasonable requested by management.</p>	

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QUALIFICATIONS	ESSENTIAL	DESIRABLE
GCSE English and Maths (or equivalent) at grade C or above	✓	
Degree or equivalent in Mechanical Engineering or similar	✓	
EXPERIENCE/ SKILLS	ESSENTIAL	DESIRABLE
Stress analysis – metallic structures (min 10 years)	✓	
Stress analysis – composite structures		✓
Finite element analysis – static / vibration (min 5 years)	✓	
Finite element analysis – dynamic (min 5 years)	✓	
Reliability analysis		✓
Thermal analysis		✓
Fatigue analysis		✓
Occupant safety simulation		✓
Microsoft Office tools	✓	
Microsoft Project		✓
Matlab/Python or similar script development		✓
Ability to work independently while collaborating in a team environment	✓	
Ability to work under pressure and to deadlines	✓	
PERSONAL SKILLS	ESSENTIAL	DESIRABLE
Team Player	✓	
Strong Work 'Can-do Ethic'	✓	
Exceptional at building relationships	✓	
Excellent Customer Service skills	✓	
Strong attention to detail and time management	✓	
Exceptional Planning and Organisation skills	✓	
High awareness of Productivity and Quality	✓	
Excellent Communication skills	✓	
Flexibility	✓	
Takes Responsibility for actions	✓	
Learn, Apply and Improve	✓	