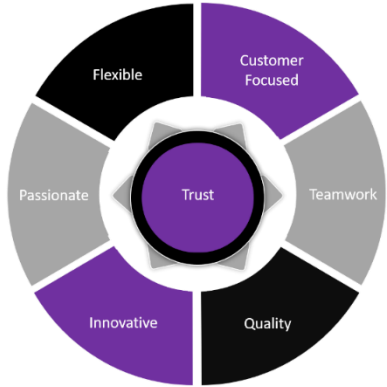


JOB PROFILE: Senior Mechanical Design Engineer

INCUMBENT'S NAME	TBD
JOB TITLE	Senior Mechanical Design Engineer
BUSINESS UNIT	Engineering
LOCATION	UK Office Based with some Remote Working
REPORTS TO	TBD
OBJECTIVES / PURPOSE OF JOB	<p>The design and development of high precision scientific instrumentation. Lead Mechanical design projects.</p> <p>Drive Engineering change for new and existing products with configuration control.</p> <p>Deliver manufacturing design documentation and specifications to latest standards.</p> <p>Champion best practice engineering design principles with commercial and financial awareness – value engineering.</p>
KEY ACTIVITIES / RESPONSIBILITIES	<ul style="list-style-type: none"> • Work within the Engineering team to deliver projects throughout product lifecycle, from concept to production (prototype build, testing documentation etc.) • Design new microscopy and precision motion instruments using SolidWorks • Supporting legacy products and maintaining parts database as required • Work closely with other departments such as sales, manufacturing and business development to present ideas and concept/final designs. Take a lead on engineering design reviews. • Apply DFM/DFA principles to meet product's requirements and deliver value engineering by exploiting & exploring new methodologies. • Preparing design documentation for production (component design, drawings, assembly drawings and instructions, BOMs etc.) with full configuration control. • DFMEA (design failure mode and effect analysis) for new development projects and current product range • Design and performance validation on current products OR refining existing models in product range • Drawings checking and approval to meet BS8888 standards. • Contribute to and lead design reviews and workload where/when required (Product development, Continuous Engineering, ECR/ECN) • Set standards within the business for best & modern engineering principles • Honour our company values:

	
KEY PERFORMANCE INDICATORS	Based on on-going performance objectives, tasks and projects.
KEY RELATIONSHIPS	<p>Internal:</p> <ul style="list-style-type: none"> • Engineering + R&D Team • Production Engineering • Purchasing • Installation and Technical Support • Sales <p>External:</p> <ul style="list-style-type: none"> • Suppliers • Test Houses • Wider engineering networks

CANDIDATE PROFILE:

QUALIFICATIONS / TRAINING	<p>Minimum NVQ Level 4 (HNC) or equivalent in Engineering discipline. Desirable educated to degree level (BSc / BEng) in industrial, mechanical, or electrical engineering, time served or equivalent experience.</p>
EXPERIENCE REQUIRED	<p>Experience of/with:</p> <ul style="list-style-type: none"> • Using SolidWorks and EPDM/ PDM Pro (admin knowledge will be advantageous) • High precision motion control & opto-mechanics would be beneficial, with an appreciation of electro-mechanical principles. • Designing components for most manufacturing techniques (CNC, fabrication, moulding, turning etc.) • GD&T in similar or high precision environment. • DFM/DFA principles. • Surface treatment and techniques (anodising, painting etc.) • Leading engineering tasks in a project environment.

	<ul style="list-style-type: none"> • Working within a Lean Six Sigma environment. • A range of precision/high technology design projects, ideally in a similar field
COMPETENCIES	<ul style="list-style-type: none"> • Documentation skills - MS Office • Understanding of value engineering strategies, DFM. • Ability to work on own initiative in a small multi-disciplinary team • Ability to communicate and present ideas to other engineers and across the business • Confident in taking lead and responsibility for design projects • Strong organizational skills to be able to work on multiple concurrent projects • Ability to work to deadlines with a cost-effective approach • Practical hands-on experience in mechanical engineering and assembly • Willing to travel as required (supplier visits, technical support in extreme cases)

EMPLOYEE'S ACCEPTANCE

I, [Employee name], agree to accept the Job Description is a guide only and will be periodically reviewed due to the evolving nature of the business. I understand I will be required to take on other tasks and responsibilities from time to time depending on the business needs for this role.

Signed Date