

	JOB DESCRIPTION MECHANICAL DESIGN ENGINEER	DOC REF:	
		DATE:	MAY 2019
		BY:	K.PICKLES

Company/ background

LBBC Technologies is a 5th generation, family, engineering business which designs, manufacturers, supplies and supports autoclave-based processing equipment into niche global markets, predominantly, the aerospace market. As our customers' requirements have evolved over the years, so has the complexity of the equipment we manufacture. In the past, LBBC has been in the fortunate and privileged position to have limited competition for our products. As we are all too well aware, the world is rapidly becoming a different place with growing, emerging economies producing capable engineers and improving quality products and becoming increasingly competitive. In order for LBBC to maintain its position as market leader, an essential part of our strategy is to focus on the quality and capability of our products and our engineers. To support this strategy, it is essential we continuously maintain and develop a strong team of high performing Design Engineers. This document details the role and responsibilities of Design Engineer.

Purpose

The purpose of a Design Engineer is to work with the Engineering Managers and other engineers as appropriate to develop market leading products, which meet quality, legislative and customer requirements, thus helping us achieve our strategic goals of engineering excellence and supplying market leading products.

Performance Measurables

- The development and production of design information for new market leading products and product ranges which meet market and compliance requirements as detailed in project briefs.
- The development of opportunities to generate intellectual property and maintain current IP.
- The further development and maintenance of internal design related processes.
- The development of processes to facilitate managed, continuous, product improvement.

Role Responsibilities

- The development and maintenance of structured, formal design information and management systems, which integrate with other related disciplines, facilitating the manufacture and supply of new products and equipment. (Using Solidworks and PDM Works as the predominant software)
- To liaise with all engineering disciplines to ensure the best engineering solutions are adopted.
- Following launch of a product for mainstream production, the control and development of standard upgrade options for the product/product type.
- To liaise with all disciplines to create and/or contribute to the creation of information for other areas of the LBBC business.
- To share and explain solutions to complex engineering problems within LBBC.

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Subsidiary responsibilities

- To adhere to, integrate and contribute to all LBBC Policies, Quality Managements Systems and Health and Safety Systems.
- To support and assist all members of LBBC where possible.
- To strive to achieve and maintain an appropriate level of technical capabilities.
- To strive to achieve and maintain an appropriate level of professional qualifications.
- To strive to continuous improvement of personal skills and behaviours which are beneficial to LBBC.

Transferable Skills

- A degree in Mechanical Engineering or equivalent qualifications and experience.
- High SolidWorks competencies.
- High AutoCAD competencies.
- High numeracy competencies.
- Sound knowledge of Project Management processes and procedures.
- Sound knowledge of Microsoft Office software.
- Sound knowledge of European Directives and CE Marking.
- Sound knowledge of ASME and pressure equipment in North America.
- Good working knowledge of design and manufacturing codes and standards.
- To have a proactive approach to challenges set out by engineering and business problems.
- To have the ability to manage time, both one's own and others.
- To have the ability to negotiate priorities and exercise self-discipline.

Role Specific Skills

- High level of knowledge of LBBC products.
- Good awareness of industries where LBBC products are to be used.
- Specialist knowledge of the Pressure Equipment Directive.
- Specialist knowledge of the Machineries Directive.
- Specialist knowledge of ASME Section VIII Div 01.
- Specialist knowledge of ASME Section I.
- Specialist knowledge of PD5500.
- Be familiar with design codes and standards applicable to LBBC equipment.
- Be capable of specifying process related equipment.