**JOB DESCRIPTION**

**Job Title:** MechanicalDesign Engineer

**Responsible to:** Design Manager

**Responsible for:**

**Job Summary:**

*As part of the CamdenBoss design team, undertake design activities for new designs and re-designs to meet customer needs. Specifically relating to injection moulded product. The role will be particularly focused on ensuring best practice is met regarding mould tool design and therefore experience of such is essential.*

**Key Responsibilities**

As part of the design team, this role will be involved with new product design. Such products will include electrical and electro-mechanical products such as enclosures. Design activities will also include customer led engineering tasks.

Involvement will typically be throughout the design life cycle from concept through to production. In particular, emphasis will be in realization of designs into volume production. As such, mould tool design is a key activity.

This role will be particularly focused on defining mould tool design in order to ensure that our products are designed for production success, long term production quality and avoiding unnecessarily costly production and mould processes. It is likely that such mould tools will be manufactured off site, in one of a number of territories.

**Personal Specification:**

**Preferred:**

**Education:**

* Degree qualified in a mechanical engineering subject to 2:1

**Experience:**

* A minimum of five years’ experience in a mould tool design engineering role. It is expected that the candidate will have first hand experience of designing mould tools; not just moulded product.
* Direct experience working with moulding plastics, or casting metal.
* Experience working as part of customer teams.
* Experience of full cycle development processes, including requirements capture.
* Problem solving (ie Root cause analysis, FMEA etc)
* Compliance with industrial standards.
* Experience liaising with off-shore suppliers and partners.
* Preparation of detailed documentation packages for design/ manufacture partners.

**Skills:**

* Expert user of 3D Modelling software, ideally Solid Works
* Experience in CAD/CAM Software, ideally MasterCAM
* Expert user of Excel and experience of Word
* Ability to read and understand technical drawings from various sources.

**Personal Attributes:**

* Clear analytical and methodical approach
* Calm and professional manner
* Be able to work as part of a team
* Be able to work to tight deadlines

**Minimum:**

**Education:**

* 3 A level passes to at least grade C *(This education level acceptable if candidate has at least 5 years relevant experience)*
* Degree/ HND or equivalent in an engineering subject

**Experience:**

* Minimum of 5 years’ experience in a design engineering role. *(This level of experience is acceptable if the candidate is degree qualified)*
* Experience working with plastic injection moulding or metal die-casting.
* Customer/ commercial experience.
* Experience of full cycle development processes, including requirements capture.

**Skills:**

* Experience of 3D CAD Modelling, preferably Solidworks
* Experience of Excel and Word
* Understanding of 2D Technical Drawings

**Personal Attributes:**

* Attention to detail
* Calm and professional manner
* Be able to work as part of a team
* Be able to work to tight deadlines