



## **JOB DESCRIPTION AND PERSON SPECIFICATION**

**JOB TITLE:** Graduate/Entry Design Engineer

**REPORTING TO:** Drawing Office Manager

**RESPONSIBLE FOR:** N/A

### **JOB SUMMARY:**

Working closely with all departments reviewing customer specs and using SolidWorks to create models and detailed drawings to meet both client and production requirements. These can range from high tolerance parts, assembly parts to full skid package layouts, both mechanical and electrical (wiring).

### **MAIN DUTIES OF JOB:**

The main responsibilities of the role are:

- Create 3D models and detailed 2D engineering drawings for high tolerance parts, piping systems & structural skids.
- Applying good engineering practices in reviewing contract specific documents – noting fabrication needs, materials of construction, inspection requirements and regulatory requirements.
- Draft and interpret Piping and Instrumentation Diagrams (P&IDs).
- Translate P&IDs into comprehensive G.A. drawings.
- Generate Bills of Materials for assemblies, piping and layouts.
- A key voice in production/project review meetings to ensure deadlines & costs are met.
- Ensure all documentation adhere to industry design standards, ASME, API etc.
- Maintaining drawing logs and documented evidence of issues for the production department as per ISO 9001 requirements.
- Assist with raising other technical documentation as required to meet Roots contractual commitments.
- Production of material and weld traceability maps.
- Collaborate with the wider company to make sure critical milestones are achieved on time and within budget.

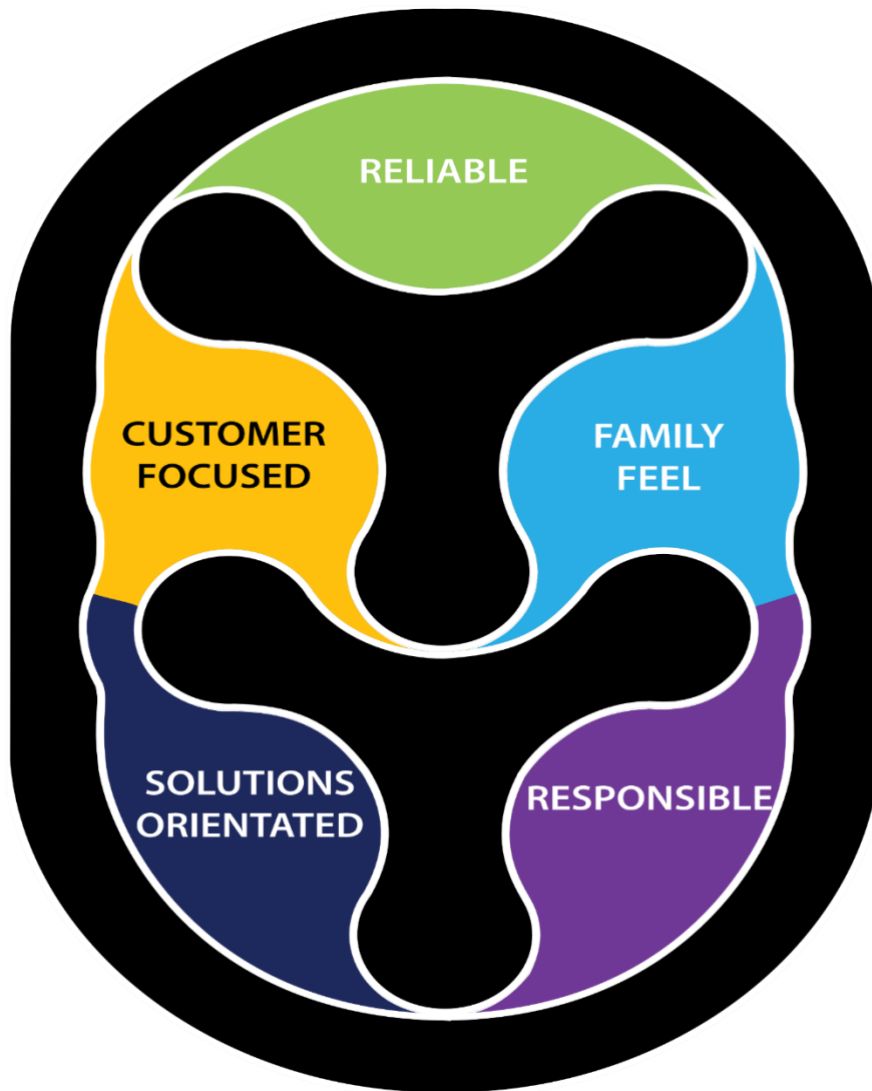
### **OTHER DUTIES:**

A degree of flexibility is needed and the employee may be required to perform work not specifically referred to above.

### **HEALTH AND SAFETY:**

The Company has a Health and Safety Policy which outlines it's responsibilities as an employer and the responsibilities of it's employees in respect of health and safety. All employees need to be aware of this policy and comply with it's content.

## COMPANY VALUES



### **RELIABLE**

Our customers trust us because we manufacture high quality, durable and long-lasting products which continue to deliver value over their lifetime.

### **CUSTOMER FOCUSED**

We operate globally, with local presence across 5 continents. We are committed to supporting our customers from first contact and continually look for opportunities to add value.

### **FAMILY FEEL**

We are proud to be a family business, we want all of our people to feel a sense of inclusion, support and belonging.

### **SOLUTIONS ORIENTATED**

We are experts in the design and assembly of custom packages for challenging environments and work with our customers to deliver the best solution to suit their needs.

### **RESPONSIBLE**

We are resource aware and mindful of full lifecycle costs. We are consciously seeking new applications that support a cleaner, safer, more sustainable future.

## PERSON SPECIFICATION

	Essential or desirable
<b>Education</b>	
Mechanical /Electrical Engineering Apprenticeship or equivalent experience.	D
Mechanical / Electrical subject Degree	D
<b>Knowledge and Experience</b>	
Experience and knowledge of SolidWorks 3D or similar 3 D CAD package.	E
Understanding and experience in the specifications, standards, requirements and expectations of design of equipment within petrochemical / renewables industry.	D
Experience of piping layout/skid package design and/or rotating machinery	D
Raising BOM's	D
<b>Skills and personal attributes</b>	
Excellent communication, verbal and written skills	E
Ability to produce high quality engineering drawings. GA's, P&ID's Fabrication and Isometric.	D
Ability to quickly establish and where appropriate further develop effective relationships with key internal and external stakeholders	E
Excellent interpersonal skills to deal with challenging situations	E
Be innovative and open to new ideas	E
Find solutions to problems in an efficient and effective manner	E
Deliver with the highest integrity the best service to all our customers	E
Be resilient and positively adapt to change	E
Self-motivated with a desire to set high standards of work performance	E
Excellent organisational skills with the ability to manage workload with competing priorities and frequent interruptions	E
A positive outlook with the ability to inspire confidence	E