▼ Project specification

General

Project name	Re-Engineering Drawing Templates
Purpose of project	Over the years many centrifugal pump manufacturers have ceased trading, leaving their customers unable to obtain some spares parts, particularly those which wear, such as casings and impellers. Amarinth endeavours to support those customers by re-engineering parts. This project involves assisting in the measurement of pump components, and recording data within an engineering assembly shop environment. The data will then be used to create a number of re-engineering template drawings using a state-of-the-art CAD package.
Ideal profile	Would suit an Engineering undergraduate with 3D CAD experience and an interest in a drawing office environment. The successful candidate would gain experience in engineering assembly, use of calibrated measuring equipment, pump componentry and engineering practices.
Expected delivery date	1- 2 months

Details

Re-engineering involves the re-creation of items which no longer have manufacturing information available for them. High quality pumps often have a design life of 20 years or more, forming part of a system which may have complex and heavy-duty pipework and where the pumps fit into a specific space. When a pump company ceases trading, spares often become unavailable. Although there are plenty of pumps that could provide the same performance as the original, there are very few that are dimensionally the same, leaving the customer with a problem. One option they could consider would be to make changes to the pipework so that a new pump will fit, but this is likely to be a very difficult and costly affair. Another option would be to have the pump refurbished by a company (such as Amarinth); however, if a major part is required, such as a casing or impeller, it would need to be remanufactured, which requires manufacturing drawings. This is an area in which Amarinth has a lot of experience, and it has recently made the decision to increase its range of re-engineered pumps.

Re-engineering requires the creation of a complete set of manufacturing drawings, but the dimensions on the drawing need to be taken from an existing pump. This project involves capture of dimensional data.

Phase 1 – CAD Drawing Templates

Produce a number of 2D CAD pump component template drawings to record critical and relevant dimensional details to enable manufacturing drawings/3D models to be produced.

Phase 2 – Measuring Componentry

Assist the Assembly team with measuring pump components using calibrated measuring equipment and recording data, to enable creation of manufacturing drawings.

Phase 3 – CAD Modelling

To read and understand 2D drawings of pump components and produce 3D CAD models to complete pump assemblies.

▼ Duties and responsibilities

Details	
Individual	You will be responsible for the day to day progress of the project. You will report to an assigned manager at regular intervals who will support you and help keep the project moving. You will need to be able to assist with measuring components/ recording data.. You will need to be able to operate 3D CAD (Solidworks) You will need to be able to interact and communicate efficiently with staff.
Supervisory	n/a
Other	n/a

▼ Person specification

General	
Job title	Engineering assistant
Remuneration	£80 - £90 / day
Reports to	Engineering manager
Hours of work (total)	37.5 hrs / week – 9:00 – 5:00pm Monday to Friday

▼ Competency requirements

Key Competencies	How often required to successfully fulfill day-to-day role						
	Never	Sometimes	Moderately	Regularly	Frequently	Often	Always
Working together				X			
Communicating				X			
Valuing People				X			
Analysing, Understanding and Deciding					X		
Planning and Prioritising					X		
Demonstrating Resilience					X		
Integrity			X				
Contributing to Change			X				
Self-Determination					X		
Leadership				X			
Customer Focus					X		
Business Excellence				X			

▼ Other requirements		
	Minimum requirement	Desirable requirement/potential
Qualifications	• 5 GCSE's or equivalent (including English and Maths at Grade C or above). • 2 A levels or equivalent preferably one in one of the sciences or maths •	• Studying towards or already completed an Engineering degree
Experience	• 3D CAD modelling & drawing (Solidworks) • Understanding of basic technical drawings & terminology • Teamworking – working as part of a team to achieve results	
Circumstances	• Available to take up position with the Company, if offered the role, within 3 months.	• Available immediately.

Note

Whilst the above depicts the perfect candidate, Amarinth is aware that many applicants will not currently possess all of the requirements. However, Amarinth is committed to the continuous development of all its employees and will be looking for an applicant's potential to meet the requirements.

If you would like to apply for this position, please download and complete an application form and equal opportunities monitoring form (which will be detached from your main application form and be used for monitoring purposes only), from http://www.amarinth.com/downloads/job-vacancies and return to: David Woollard, Amarinth Ltd., Bentwaters Parks, Rendlesham, Woodbridge, Suffolk, IP12 2TW.