



## **JOB OVERVIEW**

### **ENGINEER (CAD)**

This position involves the production of CAD models, contractual & manufacturing drawings and bills of materials. The candidate will be responsible for all engineering aspects of an order ensuring components are correctly procured in a timely fashion, resulting in on time delivery of our products and supporting technical information.

For further information about the position, please refer to the documents attached.

The Job Profile outlines the key result areas for this position and details the skills, knowledge and experience required to be fully competent in this role. However, we do not expect candidates to demonstrate all of these attributes on application so please refer to the Person Specification, which identifies the essential and desirable requirements for this post.

If you would like to apply for this position, please download and complete the an application form and equal opportunities monitoring form (which will be detached from your main application form and be used for monitoring purposes only). Both forms are available from [www.amarinth.com/downloads/job-vacancies](http://www.amarinth.com/downloads/job-vacancies) and completed forms should be return to:

Mrs Sandra Berry,  
Amarinth Ltd.  
Bentwaters Parks,  
Rendlesham,  
Woodbridge,  
Suffolk, IP12 2TW.

The closing date for this vacancy is 17<sup>th</sup> February 2010.



## JOB PROFILE

<b>Title</b>	Engineer (CAD)
<b>Responsible to</b>	Engineering Manager
<b>Job purpose</b>	To produce CAD models, drawings and bills of materials to ensure components are procured in a timely fashion, ensuring the on time delivery of our products.

### Key Result Areas

- To create 3D CAD models using Solid Works.
- To generate 3D CAD pump assemblies
- To produce component drawings for production.
- To take ownership of all engineering aspects from point of order to manufacture.
- To produce bills of material, detailing all components required to complete an order.
- To complete technical documentation to support the products e.g. parts list, GA drawings.
- To be responsible for ongoing product enhancement projects.
- To produce and collate engineering and technical data to provide accurate product data to customers.
- To keep up to date with latest methodology for CAD system and engineering processes to ensure the software is used to its fullest extent effectively.
- To be responsible for own health and safety and personal development, keeping up to date with relevant issues in relation to job role.

### Scope and Range of the Job

- Directly Supervising n/a
- Budget Responsibilities n/a
- Other Responsibilities n/a

## Qualifications and Experience

- The ideal candidate will be qualified to degree level in product design/engineering, however training will be given and candidates with A Levels or equivalent in a science/mathematical based subject will be considered.
- 5 GCSE's or equivalent (including English and Maths at Grade C)
- Solid Works experience or similar 3D CAD package producing models and drawings.
- A background in engineering or a manufacturing environment
- More experienced candidates shall have engineered products to customer specifications and international standards in mind, preferably pump standards such as API 610.

## Knowledge

- It is expected that all candidates should have a basic engineering understanding, knowing what factors and choices will affect the design process.
- Demonstrate that they are capable of producing component drawings with sufficient detail for manufacture.
- Knowledge of major items used in rotational equipment, ideally a pump, with regard to construction and operation.
- An awareness of material selection and verification by NDT & NDE methods.

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## PERSON SPECIFICATION

<b>Job title</b>	Engineer (CAD)
<b>Salary</b>	TBC
<b>Responsible to</b>	Engineering Manager
<b>Hours of work</b>	37.5 hours per week (9.00am – 5.00pm)

Requirement categories	Essential requirements	Desirable requirement
<b>Qualifications</b>	A-levels or equivalent.	Degree – engineering based.
<b>Experience</b>	3D CAD in a design environment	Solid Works Experience of work in drawing office/assembly/testing environment
<b>Skills</b>	IT – Word and Excel; Produce detailed CAD drawings; Commercial awareness.	3D CAD models, parametrically driven.
<b>Knowledge</b>	General engineering. Geometric & ISO tolerances	Rotating equipment Electrical + instrumentation; Material properties + test methods.
<b>Behaviours</b>	Team player; Flexible; Self motivated; Methodical.	Creative thinking Change catalyst; Team leadership aspirations.
<b>Circumstances</b>	Own transport	Situated within 25 mile radius of office.
<b>Miscellaneous</b>		

## SCHEDULE OF REVISIONS

Date	Content change	Comment	Authorised by
12/01/2010			Oliver Brigginshaw