

**Document:** Job Description  
**Date:** 3<sup>rd</sup> November 2021  
**Job Title:** Mechanical and Design Engineer, Unmanned Survey Solutions  
**Salary:** Negotiable  
**Location:** Hayle

**Job Summary:**

Our business is expanding, which means our product range and workload is growing so we are looking to recruit an additional engineer to join us working on our cutting edge technology projects in the marine industry. Working closely with the Lead Design Engineer and fellow colleagues within the Swathe group of companies, which includes **Unmanned Survey Solutions (USS)**, you will be based in modern offices with a workshop on the Marine Renewables Park in Hayle.

**About us:**

Unmanned Survey Solutions produces technology solutions for resale to the commercial survey and environmental industries working with a range of partner businesses and trade enterprises. This role will form part of the R&D team, developing new products and services to the marine industry.

Started originally in 2004, the Swathe group provided swathe bathymetry personnel and equipment to the global marine survey industry, however through natural diversification and a sharp insight into the changing 'landscape', USS was set up to meet the growing demand for reducing marine survey costs, making operations safer and reducing CO<sub>2</sub> emissions by designing, building and operating Unmanned Surface Vessels (USV's).

**Job description:**

Reporting to the Lead Design Engineer and working closely with the wider USS team the successful candidate will assist with the design, manufacture and deployment of a range of innovative unmanned surface vessels and associated systems. We have a number of projects underway as well as others in the planning stages, so we're looking for someone who will support us with design and development from conceptual layout, the development of prototypes and experimental systems through to completion and deployment of the projects. Our ideal candidate will have a practical engineering background and an interest in remote operation systems, electronics and the sea. Working hours are usually 9-5 Monday to Friday, however due to the nature of the business there may be times that weekend work and out of hours would be required.

**Day to day the successful candidate will be responsible for:**

- Designing USV's and associated sub systems
- Assisting in the production of the USV's, particularly electrical and mechanical assembly
- Producing designs and documentation for USV parts and assemblies using 3D CAD modeling and 2D manufacturing drawings
- Management of manufacturing sub-contractors to produce USV's and associated parts including quotations, detailed specifications and quality control
- Specifying of components and systems for USV's

**You will be required to support the company by:**

- Creation of production and regulation compliance documentation USV's
- Assist in the set up and testing of USV's including software and hardware set up in the workshop and at sea.
- Assist in the maintenance and field operations of USV's
- Maintain a clean and safe working environment
- Monitoring customer feedback to ensure customer satisfaction, taking that information to consistently look at ways of improving our products and services.

**About You:**

- Must have a HND in an Engineering oriented subject or similar, or equivalent relevant experience
- A proven competency in parametric solid modelling, surface modelling and the production of fully design detailed drawings using Autodesk Fusion 360, Autodesk Inventor, Solidworks or similar
- Passion for technology
- Keen eye for detail and be highly dexterous as some fine assembly work is required
- Ability to produce and manufacture on a small scale for R&D projects
- A knowledge of electronics is useful
- Team player
- Ability to work flexibly to accommodate the varied nature of the job
- A 'can do' and 'will do' positive attitude towards your work

Although specific training will be provided you will have a knowledge base that will allow you to confidently carry out the responsibilities that come with the role. Our ideal candidate will be looking for a career as part of a small friendly team who will be confident dealing with our customers, offer great customer service and have an interest in the operation of drones or remotely operated vehicles.

You will work closely with all the team, but specifically with our Lead Design Engineer and will be supported by a full time technician. We are looking for someone who can offer a degree of flexibility you may be required to work offsite as well as in our workshop in Hayle, occasionally we all work out of hours, although these times will be kept to a minimum and will attract an enhanced pay rate. We are a small friendly, adaptable team and we offer, modern offices, free onsite parking and a good amount of challenges and a great deal of rewards. Sound like this would suit you? Please apply with CV and cover letter tell us why you are the person to join our team!

*If you feel that you have the right skills and would like to review the full job description then please apply via email with a covering letter and CV to Sally Bridger, Office Manager at [Sally@unmannedsurveysolutions.com](mailto:Sally@unmannedsurveysolutions.com)*

Employee Type:	Full-time
Industry:	Marine, Engineering
Job Role:	Mechanical and Design Engineer, Unmanned Survey Solutions Location:
Location:	Hayle, Cornwall
Salary:	Negotiable
Provision:	Right to work in the UK

Closing date for applications: 1st December 2021

Interviews are planned for w/c: Beginning of December 2021