

Shallow Marine Geophysicist

- Position:** Shallow Marine Geophysicist
- Qualification:** Degree in Geoscience or Geophysics.
- Location:** Work from home in UK, Ireland, Australia, Canada, or Norway

About XOCEAN

XOCEAN is an ocean data company – we collect data for clients ranging from mapping the seabed to monitoring the environment. However, we do this differently, instead of using conventional crewed survey ships, we have developed a marine robotic system known as an Uncrewed Surface Vessel (USV).

Overview

Responsible for geophysical data collection, processing, interpretation and reporting.

Main Duties & Responsibilities

Responsibilities will include:

- Remote data acquisition and processing of MBES, Side-scan Sonar, & shallow Sub-bottom Profiler (Innomar) sensors.
- Side scan sonar data processing including seabed picking, interpretation, production of mosaic and seabed features
- Shallow SBP (Innomar) processing and interpretation.
- Magnetometer data processing.
- Data processing and quality control of all survey geophysical data, creating final deliverables to a high standard.
- Survey System Setup – hardware and software configuration prior to vessel mobilisation on a project.
- Online surveying on projects in shifts.
- Quality Control – monitoring of the data being captured using online and offline survey tools.
- Report writing and client interaction.

On occasion this role may involve:

- Support with bathymetry data acquisition and processing
- Support Lead Geophysicist with Survey Planning
- Managing and maintaining Quality, Environment and Health and Safety standards including update, implementation and management of all ISO processes as appropriate to the role.
- Implementing, maintaining, managing and updating all standard operating procedures and processes appropriate to the role.

Requirements: Essential Skills / Attributes and Experience

- Degree in Geoscience or Geophysics.
- Acquisition and processing experience of MBES, Side-scan Sonar, & Shallow sub-bottom Sensors.
- Experience in one or more of Chesapeake SonarWiz, DUG Insight and Oasis Montaj processing software packages.
- Sidescan Sonar processing experience to include seabed picking; target ID, tagging and listing; the creation and export of navigationally and gain corrected mosaics. Production of seabed features based on SSS, MBES and backscatter.
- Innomar data processing to include SEGy conversion/tidal reduction and export, band-pass and denoise filtering, acoustic-gain control, interpretation and export of subsurface horizons and contact hyperbolas.
- Magnetometer processing to include filtering and processing of the navigation; the creation of residual, analytical signal and altitude grids, and the production of a final target listing and project specific deliverables.
- 3 years Marine Survey Experience.
- Strong computer literacy (Configuration of sensor equipment required).
- Enthusiastic, positive and proactive nature with a keen attention to detail.

Desirable Experience

- Experience in bathymetry data acquisition and processing.
- Experience of marine survey data acquisition and processing software (e.g. QINSy, Qimera, EIVA etc)
- ARC GIS and AutoCad knowledge would be an advantage.
- Relevant marine qualifications such as Yachtmaster, Coastal Skipper, ICC (or equivalent).

Apply

- Applicants must demonstrate how they meet the essential criteria. Desirable criteria may be used for further shortlisting.
- We thank all candidates for their interest, however due to very high volumes, only those who are selected for further consideration, will be contacted directly.
- To be eligible for this position you must have a valid working visa / permit to work in Ireland/ UK/ Canada or Norway.
- Closing date for applications is 2 June 2023.
- Please apply online and follow the instructions, or submit your CV to careers@xocean.com.