

Remote Geophysical Engineer

- Position:** Remote Geophysical Engineer
- Qualification:** Degree in Geoscience or Geophysics.
- Location:** Remote in Ireland or the UK. Occasional travel to site or the XOCEAN Technical Centre

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 the online system set-up of geophysical sensors (SSS, Magnetometer, SBP), geophysical data collection, data QC & technical support across multiple USVs.

Main Duties & Responsibilities

Responsibilities will include:

- Remote data acquisition of towed Side-scan Sonar, Magnetometer & shallow 2D Sub-bottom Sensors.
- Online surveying on projects in shifts.
- Survey Strategy, Planning and Efficiency Monitoring.
- Survey System Setup – Remotely and in-person travel to Ireland to assist in hardware & software configuration during USV commissioning, mobilisation, and troubleshooting.
- Quality Control – Monitoring of the data being captured using online survey tools across multiple USV's.
- Assessment of survey results and adjustment of geophysical aspects of the survey plan as required.
- Technical report writing and client interaction.
- Other tasks befitting to the day to day running of the geophysical team.

On occasion this role may involve:

- Support with Bathymetry data acquisition.
- Side scan sonar data processing including seabed picking, interpretation, production of mosaic and seabed features.
- Shallow 2D Seismic processing and interpretation.
- Managing and maintaining Quality, Environment and Health and Safety standards.
- 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 experience of MBES, Side-scan Sonar, Magnetometer & Shallow sub-bottom Sensors.
- In-depth knowledge of survey IT and networking
- 5 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
- Experience in one or more of Chesapeake SonarWiz, DUG Insight, AutoClean, QIMERA 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.
- Shallow 2D Seismic 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.
- Experience of marine survey navigation data acquisition and processing software (e.g. Beamworx, QINSy, EIVA etc)
- GIS knowledge
- 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 or the UK.
- Closing date for applications is 2 June 2023.
- Please apply online and follow the instructions, or submit your CV to careers@xocean.com.