

**Job Title:** Robotics/Software Engineering (ROS)  
**Industry:** Oil and Gas  
**Location:** Warrington  
**Salary:** Depending on experience  
**Job Type:** 6 Month Contract (full time and part time hours available)  
**Start Date:** ASAP

**Company:**

We are an advanced engineering consultancy and NDT inspection services provider predominantly working for upstream Oil and Gas operators. We provide leading edge integrity and inspection solutions focussed on the delivery of innovative approaches and technologies to maximise the value of inspection to clients in a fast-paced consultancy environment. We develop advanced in-house software to control hardware (robotics and scanners) for data collection and advanced data analysis and analytics to maximise the value to our clients.

**Job Summary:**

We are seeking to employ an enthusiastic and suitably qualified Robotics Engineer to work on an active research project for the development of a new semi-autonomous robotics platform for inspection. You will be responsible for the continued development of our navigation and localisation algorithms. This is initially in a simulated (Gazebo) environment, and then full integration with the hardware.

The position is initially a 6-month contract, with the probability of extension. You must be eligible to work in the UK. The deadline for applications is Thursday 31<sup>st</sup> October 2019. Interviews for selected candidates will be held during the first two weeks of November 2019.

Responsibilities include the following:

- Continue the development of existing ROS algorithms for navigation and localisation of a semi-autonomous robot.
- Use of Gazebo and RViz to simulate robot in virtual environment.
- Test prototype robot to improve and finalise navigation and localisation algorithms prior to real world testing.
- Use of IMU and cameras to determine exact position relative to arbitrary starting point.
- Add SLAM mapping capability in addition to path mapping using blueprints.
- Lead the development from simulation to real world testing.
- Occasional travel to our Aberdeen Offices.

**Qualifications/Experience:**

The successful candidate will have at least the following:

- A degree in Engineering, Mathematics or Sciences or equivalent work experience.
- Demonstratable experience with Robotic Operating System.
- Experience with IMU, depth cameras (Kinect etc).
- Strong algorithm development knowledge (Matlab, Python or C++)
- Experience in some or all of the following: ROS, image processing, robotics, machine vision.
- Electrical Engineering knowledge would be beneficial.
- Good organisational skills.
- Good team working ethic but able to work on own initiative with minimum supervision.
- Meticulous attention to detail.
- Good working knowledge of MS-Office tools.

Some industrial experience is preferred.

Please include a Cover Letter in your application, stating your current position, notice period and salary.

**Benefits:**

The successful candidate will be offered a benefits package aligned with their qualifications, experience and capability. We offer a dynamic work environment with a focus on innovation and the opportunity to contribute to developments in inspection and integrity, working closely with clients in many of the world's leading companies.