Job Title: Computer Vision Engineer
Key Words: Robotics, Algorithm Development, Python, ROS, C++, AI
Industry: Oil and Gas
Location: Aberdeen or Warrington
Salary: Depending on experience
Job Type: Fixed Contract (FT/PT)
Start Date: November/December

Company:
We are an advanced integrity 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.

Job Summary:
We are seeking to employ an enthusiastic and suitably qualified Engineer for Navigation and Localisation in the final year of a robotics research project in our Aberdeen or Warrington offices. The research project is to design and manufacture a semi-autonomous inspection robot that can independently manoeuvre around an oil and gas pressure vessel whilst simultaneously collecting inspection data on wall thickness. The robot will be controlled using the Robotic Operating System (ROS); it is not expected that the chosen candidate will have existing knowledge of this language so support will be provided initially. The role is open to part-time or full-time candidates. Responsibilities & Requirements include the following:

- Continue the development and testing of existing algorithms for navigation and localisation of a semi-autonomous robot in a simulation and real-world scenarios.
- Add SLAM mapping capability in addition to path mapping using blueprints.
- Full time candidate would be expected to take on additional projects involving software development in a Matlab environment. Other language proficiency is acceptable with experience of object orientated programming.
- It is envisioned that the role could be between January 2020 to ~December 2020 with a handover period in November/December 2019.
- For an exceptional candidate remote working would be considered, however travel to Warrington/Aberdeen will be required for testing/integration with the physical robot.

Qualifications/Experience:
We are seeking an experienced engineer who can join our research project. The successful candidate will have at least the following.

- A degree in Engineering, Mathematics or Sciences or equivalent work experience.
- Strong algorithm development knowledge (Matlab, Python or C++)
- Experience in some or all of the following: ROS, image processing, robotics, machine vision.
- Ability to quickly pick up new technologies and software languages.
- Good team working ethic but able to work on own initiative with minimum supervision.
- Meticulous attention to detail.

An understanding of practical application of conventional and advanced NDT inspection will be an advantage.

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.

To apply for this position, please email your CV to careers@sonomatic.com