



## **Control & Algorithms Software Engineer**

Join us in creating the most innovative underwater robotic technology for the harshest environments in the deepest oceans and most turbulent waters.

We lead the world with the most advanced engineering, electronics and software systems for pioneering electric underwater technology.

We don't just create products – we are revolutionising the underwater world!  
So come and be part of an innovative and agile team that is dedicated to smart and inspired technology that is rapidly changing the future of underwater robotics.

**In this role you would be responsible for designing and implementing control algorithms for underwater robotics applications in line with the company's business needs through innovation, creativity and professionalism. You would be expected to work with minimal supervision either on your own or within project teams, but may also be required to manage projects from time to time.**

### **Essential Skills:**

- Working knowledge of Forward and Inverse Kinematics for real-world robotics control
- Working knowledge of closed loop control theory
- Conceptual Knowledge of motor control theory
- Conceptual Knowledge of communication protocols including RS-485, RS-232, Ethernet and CAN Bus
- Understanding of electronic systems and electrical theory
- Systems Engineering concepts: including V-model, requirements management and test strategies.
- Experience in software development in C/C++.
- Experience in MathWorks or Octave.
- Bachelor's degree from an accredited college in a related discipline, or equivalent experience/combined education.
- Excellent communication skills (written/spoken)

### **Desirable skills:**

- Full-lifecycle product design: from specification to production
- Robotics Framework applications: ROS, Robotics Library or similar.
- Sensor theory
- Embedded systems development
- Working knowledge of Maritime standards

**The role is based full-time on site at our Fareham premises, attracts a full benefit package and competitive salary.**

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#### **Saab Seaye Ltd**

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