

## **Graduate Control Systems Engineer**

As part of our growth plan, we have a new opportunity for a Graduate Control Systems Engineer to join our Automation Engineering team in our innovative energy storage company.

The role will be based in Livingston, with occasional travel to customer sites. This is a permanent full-time opportunity for someone with a keen interest in programming.

**Applicants are required to hold the relevant Visas/Work Permits.**

redT specialise in energy storage systems that deliver low-cost, low-carbon energy infrastructure with attractive economic returns for our customers. We do this using our own vanadium redox flow battery technology that we develop from core electro-chemistry all the way up to full energy storage systems operating in the field. We have installed our systems across the UK, Europe, Africa, Australia and South East Asia and have recently started the development of the largest UK vanadium energy storage system as part of the ESO project in Oxford. If you are interested in helping the global transition towards a clean energy future, we would like to hear from you.

### **About the role**

As a member of our Automation Engineering team, you will help to shape the future of energy storage technology. You will be supported and coached while working alongside our experienced Control Systems Engineers and trained on our software and hardware. Training will be complemented by hardware manufacturer when appropriate. You will help us progress our energy storage technology to deliver a range of projects, including (but not limited to) the below:

- Engage with the full software lifecycle from: requirements capture; to implementation; to testing; to maintenance
- Review customer control schemes and specifications and modify redT software and hardware to suit
- Develop software for our PLC (using a mixture of ladder logic and structured text)
- Implement new control strategies for the latest and future generations of the redT product range

### **Qualifications and Experience**

#### Essential

- Natural talent for and keen interest in programming, coupled with programming experience using any kind of PC programming/writing language, e.g. MATLAB, Simulink, Ladder Logic, Python, C, C#, Java, Lego-Mindstorm, Visual Basic, etc
- Bachelor's Degree where maths, programming and/or MATLAB have been extensively used, e.g. Automation/ Control Systems Engineering, Maths, Science or similar
- Problem-solving skills: ability to identify issues, obstacles, and opportunities and then develop and implement effective solutions
- Resourceful and Results-Oriented: you adapt to new/difficult situations and devise ways to overcome obstacles; and your focus is on getting to the desired outcome — solving the problem

#### Desirable

- Awareness of the characteristics of a variety of different communication protocols (RS485, CANBus, Modbus RTU etc)
- Awareness with whole lifecycle of system development from requirements capture to execution
- Knowledge of Power Engineering, signals processing, control system
- PLC or micro-controller experience
- Understanding of networking

**Remuneration:** competitive package and comprehensive benefits

**Start Date:** ideally March 2020, though for the right candidate we will wait until after your last exam