



## Software Engineer

SgurrEnergy is an international renewables engineering consultancy. We are one of the UK's leading technical advisory organisations specialising in renewable energy, power generation and transmission, including wind, wave, hydro and bio energy. Owing to continued growth and high demand for its services, the company is now seeking to recruit a software engineer to join our expanding Technical Development team based in Glasgow.

### Job description

SgurrEnergy is currently developing a number of software packages to support its new and innovative product line. These include:

- Analysis software for the Galion Lidar. The Galion Lidar is a laser based device capable of capturing wind speed and directional data over large areas. We are developing a powerful software package to enable our analysts and clients to easily interrogate and visualize the large amounts of detailed data that the Galion provides.
- SgurrTrend, a software tool that takes SCADA data from operational wind farms and allows rapid analysis to highlight areas of underperformance.

The principal responsibilities of this post are to:

- Ascertain software requirements and develop software specifications.
- Design, develop, and evaluate software modules and tools which are used to support the services offered by SgurrEnergy.
- Develop and implement rigorous software testing procedures to assess performance against design specification, reliability and system interactions.
- Participate in software design reviews and code reviews on a regular basis to ensure and maintain high internal standards.
- Author and review technical documentation and user manuals, train software users, and mentor other software developers where appropriate.
- Ensure the consistent application of appropriate development methodologies throughout development life cycle.
- Work as an effective member of multidisciplinary teams.
- Use company design and coding practices as applied to projects.

Other duties may include but are not limited to:

- Technical assessment of renewable products.
- Search and review literature and patents for relevance to assigned tasks.
- Attending client meetings and projects outside the UK.
- Other ad hoc activities as and when required.

### Essential criteria

- Degree qualification in Software Engineering, Computer Science or similar.
- Postgraduate software development experience incorporating whole life-cycle knowledge from design, through implementation, first deployment and updates.
- Strong background in Java and/or Python and object oriented programming.
- Knowledge and experience in database design, implementation, maintenance and query optimization (preferably MySQL).
- Understanding of testing and documentation procedures.
- Knowledge and experience of using version control systems and of working as part of a team of programmers.
- Excellent communication skills, coupled with a flexible and proactive approach to work and a willingness to share knowledge to thrive in this busy team.

### Desirable criteria

- Experience with web development technologies, particularly W/LAMP server configuration and PHP.
- Familiarity with other programming and scripting languages such as CSS, HTML, Matlab, Ruby, OPC.
- An interest in renewable energy and/or sustainability.
- Experience with software IP and patents.
- Experience with SCADA systems.
- Good general awareness of data analysis and statistics techniques.
- Some knowledge and background in engineering and/or the physical sciences.

The company is growing rapidly and offers excellent long-term career prospects.

Hours: 37 hours per week with occasional evenings to attend meetings.

Holidays: 23 days and 9 public holidays.

Contract: Permanent position with a 3 month probationary period.

Training: Active encouragement of personal and professional development.

Equal opportunities: We follow an equal opportunities policy.

Salary: Negotiable - dependent upon experience.

Location: Glasgow.

To apply please write enclosing full CV and covering letter to [recruitment@sgurrenergy.com](mailto:recruitment@sgurrenergy.com) with the subject heading: 'Software Engineer'. Closing date is Friday 4<sup>th</sup> January 2013.

**Shortlisted candidates will be contacted by telephone or email.**

**SgurrEnergy Ltd will not use Agency support to fill this role.**