Denchi House

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**Vacancy :**  C/C++ Software Engineer – Embedded
**Duration :**Permanent
**Location :**Thurso

Denchi is the UK’s leading supplier of high reliability battery systems and is looking to strengthen its engineering team through the appointment of an Embedded Software Engineer.

Denchi has been designing and manufacturing high reliability batteries from its base in Thurso, Scotland, for over 20 years, and supplies blue chip customers in the defence, security, aerospace, oil and gas and renewables markets. Denchi is poised to go through a period of sustained growth with some key projects starting in the defence and energy markets and is planning to triple turnover in the next 3 - 5 years.

**The Role:**

Your role as a Software Engineer will involve the design, implementation and testing of both embedded and application software. This will include the improvement of existing software and the development of new features and products.

You will be required to support a mixture of both R&D and product development tasks within the Software department of the UK’s leading supplier of high reliability battery systems. You should be keen to be involved in all development areas, you should have a proven track record in both problem solving and standards compliant, quality software development.

You will be required to follow all existing processes and working practices and encouraged to contribute to their improvement as they evolve. Working as part of a multidisciplinary team you will have good communication skills and a genuine passion for innovative technology. This opportunity will enable the successful candidate to gain knowledge of cutting-edge battery charging and management systems.

**Key Responsibilities:**

* Principally your role will be the design, implementation and test of both embedded and application software for our existing and new products.
* Ensure software reliability, standards, safety and security objectives are met.
* Delivery of both technical work and documentation.
* Work well as part of the team to deliver and maintain battery systems and modules.
* Be involved in the full product lifecycle including simulation, testing and bug fixing.

**Other Duties and Responsibilities:**

* Undertake such other duties and responsibilities as may be reasonably required within the grade and level of the post.
* Actively participate and contribute to the improvement of the software department and its processes.
* You will be expected to perform different tasks as necessitated by your evolving role within the company and the overall business objectives of the company.
* Some travel within the UK may be required.

**You don’t need to tick *every* box, but ideally you will have/be:**

* A strong understanding of Embedded Realtime systems both bare metal and RTOS based.
* A working knowledge of common interfaces and protocols I2C, SMBus, SPI, etc.
* Experience meeting quality and safety standards MISRA 2012, DO-178C, static analysis etc
* Good understanding of the embedded development tool chain - debugging and problem solving.
* Strong version control discipline.
* A thorough understanding of circuit schematics

**Other useful skills for this role:**

* Experience with safety standards for example IEC 61508.
* Quality centric mindset with a test driven development approach.
* Experience developing with the FreeRTOS family.
* Testing and automation experience.
* Some knowledge of C#, Java or Python.
* Windows application development
* Good communication skills for internal and external technical discussions.

Excellent written, verbal communication and organisation skills are a pre-requisite.

**The local area**

The Highlands and Islands of Scotland offers some truly amazing lifestyle opportunities including:

* Stunning scenery featuring iconic mountains and flat rolling moorlands right on your doorstep.
* The world famous Royal Dornoch golf course.
* An internationally recognised surf spot around the Thurso East reef with beautiful beaches and bays, wildlife, hills, and big skies.
* Friendly thriving communities.
* Excellent local transport links to surrounding areas, including Inverness.

**Our culture**

Each member of our team is encouraged by a working culture that offers empowerment, collaboration, and innovation to drive continuous improvement and outstanding engineered solutions.

If you join the team at Denchi you will be working and collaborating with exceptional people from a diverse range of disciplines and backgrounds, many of whom are specialists in their specific area of expertise and are passionate about what they do.

**Diversity, equity, and inclusion statement**

Here at Denchi, our people are at the heart of what we do, which is why we are committed to being an employer that allows our staff to bring their true selves to work each day.  We understand that diversity is a key to success and that what makes each of us different, strengthens us.

We are committed to being a diverse and inclusive working environment where all qualified applications are welcomed regardless of gender, race, religion, age, socio-economic background, disability, sexual or gender orientation. We value people for who they are and the contribution they make. We’re powering an inclusive future for all.

**Applicants must have the right to work in the UK and will be required to undertake a Baseline Personnel Security Standard (BPSS) check.**

Note:

We’d love to hear from you if you think you have the skills, mindset, or experience for the job - even if you don’t match some of the items we’ve listed. Full training will be provided and we believe in hiring the whole person, not just what’s on your CV.

Applicants should email their CV with a covering letter to careers@denchigroup.com