



## Senior Embedded Engineer position

Lightricity is a high-tech SME which has developed a unique light (photovoltaic) energy harvesting technology. Our technology provides power to smart devices and sensors without the need for disposable batteries, providing a sustainable and cost-effective solution for powering billions of smart devices and sensors.

We are seeking a talented embedded systems engineer to join our development team in Oxford.

### Responsibilities:

- Responsible for design, development and testing of embedded device firmware for energy harvesting products
- Contribute to system design and major component selection for new designs and products
- Integrate and validate new product designs
- Liaise with internal & external stakeholders to elicit and communicate requirements, development plans and results
- Write and maintain technical documentation

### Required skills/experience:

- Embedded C / C development experience
- Ability to work with a wide range of development systems, IDEs and microcontroller architectures
- Some understanding of C++
- A solid understanding of common wired and wireless communications protocols including I2C, SPI, Bluetooth LE or other low-power wireless protocols
- Experience interfacing microcontrollers to a variety of sensors
- Experience developing for low power applications by exploiting microcontroller sleep/standby states and power management of peripherals
- Expertise in embedded software engineering best practice with a proven ability to write good quality, robust, reliable and maintainable code
- Excellent understanding of Electronic Hardware
- Knowledge of version control systems
- Attention to detail in software design and implementation
- Strong debugging and problem-solving skills
- Eligible to work in the UK

### Desirable skills/experience:

- Any embedded systems and IoT development experience
- Understanding of RF principles applicable to low power wireless systems
- Experience developing software in at least one high level language such Python or C#
- Ability to write higher level applications for testing and configuration of firmware
- Ability to work independently and manage projects

To apply for this position please send your CV and a covering letter to [jobs@lightricity.co.uk](mailto:jobs@lightricity.co.uk)