



## Job Description

|   |  |
|---|--|
| <b>Position:</b>                                    | Firmware Engineer C Language   |
| <b>Directly reports to:</b>                         | Software Team Leader   |
| <b>Direct reports:</b>                              | None (but mentoring of other engineers expected)   |
| <b>Regularly interacts with:</b>                    | <p>Internal:</p> <ul style="list-style-type: none"> <li>• Software Team Leader</li> <li>• Software Team Members</li> <li>• Hardware Team Members</li> <li>• Test Team Members</li> <li>• Project Manager</li> </ul>  |
| <b>Primary location:</b>                            | Milton, Cambridge  |
| <b>Travel requirements:</b>                         | None   |
| <b>Role description / primary responsibilities:</b> | <p>As Firmware Engineer you will be required to:</p> <ul style="list-style-type: none"> <li>• Take technical ownership of electricity meter protocol development and integration to data concentrator and hand held reading tools.</li> <li>• To work with Software Team Leader to design, develop and deliver high quality, scalable, robust, maintainable and secure embedded system products, primarily in 'C'.</li> </ul>  |
| <b>Experience and skills required:</b>              | <p><b>Essential Skills and Experience</b></p> <ul style="list-style-type: none"> <li>• Minimum 4 years experience of using embedded C in systems with limited resources (less than 512K program space)</li> <li>• Wide knowledge and practice of data structures and algorithms</li> <li>• Experience and knowledge of unit and functional testing and advocate of test driven development</li> <li>• Practiced user of configuration management tools</li> </ul> <p><b>Desirable Skills and Experience</b></p> <ul style="list-style-type: none"> <li>• Knowledge of electricity metering protocols such as DLMS</li> </ul> |

|                             |  |
|-----------------------------|--|
|                             | <ul style="list-style-type: none"> <li>• Experience of “Internet of Things” and Smart Cities</li> <li>• Experience and knowledge of design methodologies; waterfall, agile, scrum</li> <li>• Ability to interface with other companies and staff on a technical basis</li> <li>• Knowledge and experience of Python programming language</li> <li>• Experience and knowledge of common protocols and protocol design experience</li> <li>• Experience of ISM band radio / ZigBee / IEEE 802.15.4</li> <li>• Experience of MSP430, H8, 8051, PIC, 68HC12, Cortex M0/M3</li> </ul> |
| <b>Personal attributes:</b> | <ul style="list-style-type: none"> <li>• Enjoy working within a ‘start up’ culture.</li> <li>• Highly motivated and determined to succeed.</li> <li>• Strong long term commitment to making the company a success.</li> <li>• Ability to work under pressure and to tight deadlines.</li> <li>• Attention to detail and driven by quality.</li> <li>• Able to switch between several tasks efficiently.</li> <li>• Relish technical challenges.</li> <li>• Self-starter.</li> </ul>  |
| <b>Qualifications:</b>      | <p>Required: Degree or equivalent in science or engineering.<br/> Preferred: Higher degree or equivalent in science or engineering.</p>  |