

## Software Engineer

---

Opsydia Ltd., a new spin-out from the University of Oxford, is recruiting a team of technology specialists to develop innovative solutions using laser machining in security and other applications. The team is undertaking research and development to transform its adaptive optics laser fabrication technology into industrial machines that will be tailored to different applications. We are seeking to recruit a software engineer, who will be responsible for development of embedded software for new instrumentation. The ideal candidate will have a degree in Engineering, Computer Science, Physics or a related subject and will be highly motivated to apply their abilities to finding innovative solutions to technical challenges.

The successful candidate will be responsible for the software architecture and development of a software system for the company's new laser fabrication solutions, including all aspects of the system operation, hardware integration in a user interface, remote diagnostics and reporting, achieved in a secure environment incorporating security keys. Software development will be performed in close collaboration with the hardware and system development engineers. This will be the first software engineering role within Opsydia so the candidate will be responsible for establishing the software processes, controls and best practices for sustainable development.

Skills – essential to have in several areas and ability to apply to the remainder:

- C and C++ programming
- GUI development
- Ability to evaluate cryptography specification and implementation
- Conversant with different operating environments including Linux
- Development for embedded systems
- Development cycle management, version control
- Design and development of control/management software for remote hardware

Skills - desirable

- Micro-controller programming in assembly and C
- Embedded web server implementation

Essential selection criteria

- The ability to develop innovative solution to complex technical challenges
- This is an opportunity to join an exciting new company at the early stage of its development so a flexible approach and willingness to contribute to the wider activities of the company is essential

As part of the recruitment process a selected candidate will be required to undergo security screening to BS7858.

### **ABOUT OPSYDIA**

Opsydia is set to bring significant security advances to a number of markets. Harnessing short pulse laser technology, the company has the ability to create serial numbers, logos or marks, invisible to the naked eye, inside transparent materials including diamond, glass and polymers for security applications. We are currently developing a range of industrial solutions for



commercial deployment. Other applications for the technology include advanced diamond-based sensors. The company has secured funding to take it to planned profitability from leading investors experienced in supporting Oxford spin-outs. The first customer has been secured and the company is already generating sales revenues.

The company is based in the Centre for Innovation and Enterprise at Begbroke Science Park north of Oxford. Begbroke offers comprehensive facilities on-site including a restaurant, coffee shop, free parking and a minibus service between the park and Oxford.