

## Electro-Mechanical Engineer

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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 applications. The team will undertake research and development to transform adaptive optics laser fabrication technology into industrial methods that will be tailored to different applications. In particular, we are seeking to recruit an electro-mechanical engineer, who will be responsible for the mechanical and electrical architecture and development for our new instrumentation. The ideal candidate will have a degree in Engineering 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 architecture and design of the mechanical and electrical systems for the company's new precision laser fabrication solutions, including instrument chassis and enclosures, laser/optics mounting, stage integration, modelling environmental effects, electrical systems design including interfacing and safety, and creation of a production documentation system. Later it is envisaged designs will be required for smaller high-volume viewer products. The development will be performed in close collaboration with the systems and software development teams. This will be the first mechanical/electrical engineering role within Opsydia so the candidate will be responsible for establishing the documentation processes, controls and best practices for sustainable development.

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

- Mechanical design for light-industrial systems including qualification and test
- Electrical design including interfacing, cabling harnesses, safety and regulatory approvals
- Design of smaller appliances to B-surface level would be an advantage including liaising with external designers for industrial design and tooling
- Creation of production documentation to ISO 9000 requirements.
- Experience in precision manufacturing and/or laser-based systems would be an advantage
- A willingness to learn new technical skills as demanded by a project

Essential selection criteria:

- The ability to develop innovative solutions to complex technical challenges
- The ability to work effectively in a team and to concentrate effort on meeting team goals, while showing responsibility for personal performance
- 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 including an on-site restaurant, coffee shop, free parking and a minibus service between the park and Oxford.