

# TeraView

## **ELECTONICS ENGINEER**

TeraView Ltd is the world's first and leading provider of terahertz solutions to Fortune 500 companies, in a variety of industries. TeraView was created in 2001 from a relationship between the Toshiba Corporation and the Cavendish Laboratory at the University of Cambridge. TeraView's vision is to establish terahertz as the premier imaging and inspection tool for the 21st century.

An opportunity has arisen for an experienced electronics-engineer to join TeraView. You will work as part of a close-knit team to continue the development of analysis and control systems for TeraView's industrial sensing and metrology solutions. The role encompasses system electronics design from analogue signal pre-processing to digital transmission and manipulation in an embedded device comprising both FPGA and MCU components. The ideal candidate will have a strong technical background, a clear passion for instrumentation development, be a self-starter with a positive attitude and have a proven ability to work effectively in small multi-disciplinary teams.

### Responsibilities:

- Specification and design of PCBs used in TeraView's products
- Maintenance of version-controlled design data and managing the fabrication of PCB assemblies through external suppliers
- Verification and validation of PCB designs

Design, specification and documentation of cables and wiring used in TeraView's products and systems

Regulatory EMC compliance testing

Supervision of in-house PCB manufacture and device firmware programming procedures used in production

- Firmware development in partnership with external developers
- Integration of 3rd-party electronic devices

## **PROFILE, SKILLS, EXPERIENCE & CHARACTERISTICS REQUIRED**

### Essential:

- 1-class or 2.1 degree in electronics engineering, electrical engineering, or physics
- At least 3 years of postgraduate professional experience in electronics design, PCB schematic capture, layout, manufacture, and testing
- Experience designing high-performance precision analogue circuits operating up to 1MHz.
- Involvement in product design for CE-compliance, EMC-testing and product safety
- Experience working with distributed version control system, e.g. git, hg.

### Desirable:

- FPGA development skills, verilog-programming and Xilinx Vivado tool-stack
- Microcontroller programming in C/C++
- PCB design using recent KiCAD releases (v5 or later)
- Application development in python and numpy
- Device development using USB2 and CANbus interfaces
- Linux programming and administration

## **FURTHER INFORMATION**

The job location is Cambridge. To apply for this vacancy, please send your CV together with a covering letter to [careers@teraview.com](mailto:careers@teraview.com), which should give details of your current remuneration and examples of where and how you have applied your skills in previous working environments. The letter should also highlight how your skills could be used within TeraView.

TeraView offers an excellent salary and benefits package, along with the opportunity for highly motivated staff to work together in a friendly, intellectually stimulating, and challenging environment where there is plenty of scope to influence and shape the development of products in one of the newest, and most exciting, areas of technology.

We are an equal opportunities employer and pride ourselves on our diverse workforce. For further information and background on the company, please visit our website on: [www.teraview.com](http://www.teraview.com)