

Electronics Design Engineer

Avalon Sciences Ltd

Location: Somerton, Somerset, England
Salary: £Neg
Contract: Permanent
Working Hours: Full Time

Job Description:

Avalon Sciences is the leader in borehole seismic recording equipment. All equipment is designed, and manufactured in house by highly skilled engineers and technicians. The popularity of the Geochain system has led to rapid expansion; the company now employs over 50 people at its base in Somerset.

Electronics are at the heart of all our tools. The range of work undertaken by the electronics team is varied and at all stages of the product lifecycle. The electronics sub-assemblies are typically high value and are built in low volumes. The team works closely with mechanical designers to ensure the products can operate in the extreme environmental conditions found in boreholes. A typical system uses low noise data converters, programmable logic devices, embedded microcontrollers, hi-speed data transmission and reception, DSP, and USB data transfer to a PC.

There is now a vacancy in the Electronic design team for a highly motivated design engineer. The work is both interesting and challenging. The candidate is likely to be an experienced Hardware Design Engineer looking for their first career move into an exciting and challenging role. As an intelligent self-starter you will be working alongside a team of experienced engineers. You will be able to initiate and execute designs and have a methodical approach to development and testing.

The ideal candidate will have:

- An excellent academic record (Good Degree in Electronics, or equivalent)
- A minimum of 5 years design experience
- Good analogue electronics design skills
- Excellent Digital design including VHDL Programming
- Proficiency in the use of PCB design tools from Schematic entry to layout
- Strong knowledge of embedded microcontrollers including programming in the 'C' language
- Proficiency in the use of Microsoft Office Applications

Experience of any of the following will be useful:

- High temperature circuit design
- Wireline telemetry design (data comms, SerDes)
- Digital signal processing
- Switch mode power supply design
- Hybrid circuit design
- 68k assembler language
- Altium CAD

- Systems design / requirements capture
- Integration, test and qualification
- Project and risk management
- Legislative requirements (LVD, EMC and CE-Marking)
- Technical document writing

How to apply

Submit a CV to recruitment@avalonsciences.com