THE DOWNHOLE VISUAL ANALYTICS COMPANY

ELECTRONICS DESIGN ENGINEER (VHDL)

Interfaces:

Reporting line:	Electronics and Firmware Engineering Manager
Direct reports:	None
Interfaces:	Technology Team
	Electronics, Software, Mechanical, Production and Operations Teams
Location:	Norwich

Job Brief:

The position is within the Technology Team based in Norwich developing wellbore inspection tools for the energy industry. You will be working closely with engineers from a range of disciplines with a verity of skills and experience. EVs key technology revolves around video capture and image processing in extreme environmental conditions, including temperatures up to 175C. The role will allow you the freedom, but also the responsibility, to take ownership of current and future product designs. You will participate in decision making from the beginning of the design process and your input will be important to the success of future developments. The Technology Team is casual but fast paced environment where two days are rarely the same. As a small team many of the engineers are multiskilled and the ability to expand your skill set, with appropriate training, will be important for this role.

Keywords: VHDL, Verilog, FPGA, Electronics design, PCB layout, Schematic Capture

Role and Responsibilities:

- VHDL/Verilog development for EV's current and future well bore inspection tools
- Implementing Image sensor control and video pipeline
- Embedded development for microcontrollers/microprocessor in sensor control systems
- Electronics design from schematic capture, PCB layout, to test planning and implementation
- Support and maintenance existing product designs
- Developing component qualification test routines for high temperature operation
- Continually improving EVs design methodology and development processes
- Ensure compliance with company's HSE policy and actively promote safety within the work environment

Essential Skills required:

Minimum:

2.1 Degree in Electronic Engineering or similar

+3 experience in a design engineering role

- Proven background in VHDL and/or Verilog
- PCB design with mixed signals
- Experience in embedded C or C derived langue development for microcontrollers
- Comprehensive knowledge of full design lifecycle including specification, design, and test documentation
- Structured test implementation
- Excellent proficiency in debugging and fault finding
- Motivated, quality-focused engineer with excellent team working skills
- Good English communication skills, oral and written

Desirable Skills:

- Video and image sensor control
- High-speed and Flex-Rigid PCB design
- Analog Signal Processing design
- Altium
- Assembler
- MATLAB

Package:

- 30k-50k (dependant on qualification and experience)
- Subsidised private healthcare
- Salary sacrifice pension scheme
- Further education support
- 25 days holiday, plus publics & additional day for long service
- Company supported fund raising
- Relocation assistance as appropriate