

ALLEN&HEATH

JOB TITLE	DIGITAL ELECTRONIC HARDWARE ENGINEER (25)	(Ref: RDV
DEPARTMENT	RESEARCH AND DEVELOPMENT (62)	(Cost Code:
HOURS OF WORK	37.5 HOURS PER WEEK	
SALARY	Dependent on experience	

JOB SUMMARY	Digital Electronic Hardware Design, Development and system evaluation. Multi-discipline circuit design and product prototype evaluation with consideration to EMC compliance. advise PCB layout,	
KEY DUTIES	<ul style="list-style-type: none"> • Digital Electronic Hardware Design and Development High speed digital design - Logic, Timing, Signal Integrity Microprocessor and Microcontroller design, DSP, FPGA, CPLD, Memory. Digital serial communications, ADC, DAC, logic and memory device interfaces. Control surface electronics: rotary encoders, touch screen technology, USB and Ethernet peripherals. • Cost and manufacture design analysis • Circuit Schematic and advise PCB layout - space and cost critical designs essential. • Circuit/PCB prototype evaluation involving signal integrity, general electrical noise, EMC and power behaviour. • Liaison with production engineering including engineering change documentation and advising production on test strategy. 	

QUALIFICATIONS	Degree from an accredited course in Electronic Engineering. Or suitable experience in the field.	Essential
EXPERIENCE	<p>Minimum 2 years' experience</p> <p>Candidate should show evidence of skills in cost effective design for a very competitive market. The job will require a good knowledge, understanding and experience of most of the following :</p> <p>High speed digital design - Logic, Timing, Signal Integrity etc Embedded Microprocessor and Microcontroller design Digital circuit components : DSP, FPGA, CPLD, Memory etc</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p>

	<p>Digital serial communications, SPI, ADC, DAC, logic and memory device interfaces. Knowledge of USB and Ethernet peripherals.</p> <p>Circuit Schematic design – ideally Altium</p> <p>Knowledge and experience of the following will be considered an advantage :</p> <p>PCB layout – experience of multi-layer layout, ideally Altium.</p> <p>VHDL, Programmable logic design tools, synthesis and simulation Knowledge of digital audio, C programming language.</p>	<p>Essential</p> <p>Desirable</p> <p>Desirable</p>
ATTRIBUTES	Team player, Good communicator, Self-motivated, Quick learner	Essential
DISPOSITION	A desire to live in Cornwall	Essential