

# Smart Sensors Limited

Carpenter House · Broad Quay · BATH · BA1 1UD

*Specialists in Intelligent Sensing Systems*

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## Confidential Information – Person Specification, Research Engineer

We are a small company working in the exciting field of Iris Biometrics (using digital images of the iris of human eyes to verify or recognise the identity of people). We have significant recent international success in licensing our technology to product developers, and are looking for a well-qualified Research Engineer to take our R&D effort into the next generation of products. Their immediate workload will involve development of techniques for image processing, pattern recognition and feature extraction, and then coding them into initial software.

	Essential	Desirable
Status	Permanent, full time	Start date as soon as possible
Hours	Working days, 37.5 hours per week	
Location	Carpenter House, Bath (city centre)	
Travel		Available for occasional overseas travel, USA and W Europe for customer application engineering
Person		
Education	Degree	Higher degree or project specialisation
Background	Engineering, Physics, or Maths Image Processing – esp. Machine Vision	Electronics, Machine Vision, Light & Optics, Statistics
Communication	Good command of spoken and written English	Customer interface/technical support skills
Motivation	Self-motivated, can follow a broad workplan on own initiative with limited supervision	Knows how to motivate others
Management	Good self-organisation	
Experience	2-5 years [We will consider an immediate post-doc who has worked on collaborative projects with industry]	Project planning: Requirements, design, scheduling
Technical skills		
Programming	Fluency in C and/or C++, familiarity with MATLAB	Software architecture
Environments	Visual Studio, .NET, Windows	Linux, Windows CE
Platforms	PC	PDA's, Embedded hardware, FPGA
Knowledge	Practical and theoretical frequency domain signal processing (FFT, DCT, wavelets, etc.) Image segmentation Object and feature detection	Principal Component Analysis Mathematical fitting of data Image and Video compression Digital camera sensor characteristics

Martin H. George  
Director

**Further information:** please e-mail  
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