

## PERSON SPECIFICATION

**POST: Senior Clinical Scientist in Artificial Intelligence (Band 8A)**

**DEPARTMENT: Medical Physics**

### Requirements

	<b>ESSENTIAL</b>	<b>A/I/T*</b>	<b>DESIRABLE</b>	<b>A/I/T*</b>
<b>Qualifications/ Education</b>	Good (1st or Upper 2nd class) Honours degree in a relevant subject  Relevant MSc or equivalent	A  A  A	Completion of Scientist Training Programme in a relevant discipline, or equivalent  Relevant PhD	A  A
<b>Professional/ Statutory Registration</b>	State registration as a Clinical Scientist (gained or achievable within an acceptable timeframe)	A/I	Professional registration or chartered membership in engineering or computing – IET, IPEM, FCI, BCS, etc	
<b>Previous experience</b>	Highly developed specialist knowledge across the full range of working procedures and practices in clinical scientific computing, building on theoretical knowledge and practical experience.  Specialist training and practical experience with a wide range of clinical scientific	A/I  A/I  A/I  A/I	Previous research experience	A

	computing systems and software			
<b>Skills/Knowledge/Ability</b>	<p>Advanced knowledge of problems arising from system errors, equipment failure and clinical factors</p> <p>Advanced specialist knowledge of techniques and clinical applications</p> <p>Extensive experience of software engineering and the software development life-cycle, including issue tracking, testing, documentation, version control and continuous integration.</p> <p>Able to prioritise and manage own work</p> <p>Able to exercise own initiative when dealing with issues within own specialist area of competence and within broader areas of clinical scientific computing</p> <p>In depth understanding of relevant legislation, national standards,</p>	<p>I</p> <p>I</p> <p>I</p> <p>I</p> <p>I</p>	<p>In-depth knowledge of several high-level languages used in data science, such as Python, R, Julia, Java, or C++, and ability to rapidly acquire knowledge of new languages and platforms.</p> <p>Understanding of distributed software applications.</p> <p>Up to date with new approaches in software development</p> <p>Demonstrable experience with PostgreSQL or other modern SQL platforms</p> <p>Experience with HL7 messaging or other healthcare enterprise integration standards</p> <p>Knowledge of and commitment to software development best practise</p>	<p>I</p> <p>I</p>

	<p>professional and other guidelines</p> <p>Able to use Excel, Word, Access etc to set up documents and spreadsheets and extract information.</p>			
<b>Physical Requirements</b>	<p>Highly developed physical accuracy and dexterity, for making precision measurements and adjustments on equipment</p> <p>Use of fine tools for equipment adjustment</p> <p>Able to lift medium/heavy weights</p> <p>Able to concentrate frequently when subject to unpredictable working patterns</p> <p>Able to concentrate for prolonged periods [eg debugging software]</p> <p>Able to deal with occasional distressing circumstances [work occasionally involves contact with patients]</p>	<p>I</p> <p>I</p> <p>I</p> <p>I</p> <p>I</p> <p>I</p>		
<b>Additional Information</b>	Able to communicate highly complex information	I	Experience of organising and delivering teaching and training to a	

	[eg postgraduate level physics material to other professional groups]	I	multidisciplinary audience.	
	Able to present scientific papers at national and international conferences	I		
	Able to train groups of other professional staff	I		
	Able to develop and deliver teaching and training on complex subjects	I		
	Good negotiation skills	I		
	Able to deal with complex and unpredictable situations	I		

**A=application**

**I=interview**

**T=Test/ assessment centre**

It must be stated whether these requirements are **ESSENTIAL** or **DESIRABLE** for the post. This can be clearly understood by the potential candidate if it is done in the form of a chart.

**Add initials and date of preparation**

SK 21<sup>st</sup> November 2019