

PERSON SPECIFICATION
POST TITLE: PRINCIPAL PHYSICIST

PRINCIPAL PHYSICIST		Essential (E) Desirable (D)	Assessed through: App Form (A) Interview (I)
Royal Free World Class Values	<ul style="list-style-type: none"> Demonstrable ability to meet the Trust Values <i>Positively</i> welcoming <i>Actively</i> respectful <i>Clearly</i> communicating <i>Visibly</i> reassuring 	<ul style="list-style-type: none"> E 	<ul style="list-style-type: none"> A / I
Education & professional Qualifications	<ul style="list-style-type: none"> Honours first degree (1st or 2nd) in physics or containing a major physics component. Relevant MSc or higher degree or equivalent level of knowledge. IPEM graduate diploma in medical physics (DipIPEM) or equivalent. HCPC registration as a Clinical Scientist. Corporate Membership of IPEM (MIPEM) or eligible for membership. Chartered scientist (CSci) or eligible for the award. Certified Medical Physics Expert on national register or application in progress. 	<ul style="list-style-type: none"> E E E E D D E 	<ul style="list-style-type: none"> A A A A A A A
Experience	<ul style="list-style-type: none"> Highly developed specialist theoretical and practical knowledge of radiation dosimetry, treatment unit technology, treatment planning systems, and computer systems in radiotherapy, sufficient to act as a Medical Physics Expert in these areas. Specialist training and practical experience of a wide range of radiotherapy equipment 	<ul style="list-style-type: none"> E E 	<ul style="list-style-type: none"> A / I A / I

	<p>and computing equipment, including linear accelerators, treatment planning systems and dosimetry equipment.</p> <ul style="list-style-type: none"> • Advanced knowledge of patient and machine dosimetry and quality assurance in radiotherapy. • Broad knowledge of applied radiation physics and associated areas within medical physics. • Relevant clinical experience in radiotherapy physics post registration. • Broad knowledge of clinical procedures and practices in radiotherapy. • Highly developed knowledge of clinical issues and their implications for radiotherapy physics practice. • Broad understanding of patient and staff risks arising from equipment failure and staff error. • High level of understanding of patient and staff risks arising from treatment planning computer system errors, equipment failure, treatment errors and incorrect dosimetry. • Broad knowledge of radiotherapy techniques and clinical applications. • In depth knowledge of relevant legislation, national standards, professional and other guidelines, quality systems, local rules and safety practices (for example ISO 9001 2000, Health and Safety, COSHH). • Understanding of hazards posed by, and precautions 	<ul style="list-style-type: none"> • E • D • D • E • E • E • E • E • E 	<ul style="list-style-type: none"> • A / I • A / I • A / I • A / I • A / I • A / I • A / I • A / I • A / I
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	needed with: ionising radiation, non-ionising radiation and electrical hazards.		
Skills and aptitudes	<ul style="list-style-type: none"> • Able to prioritise and manage own workload with effective time management skills. Flexible, able to adjust commitments when required and work to tight deadlines (checking complex treatment plans to a tight deadline for example). • Able to deal with complex and unpredictable situations (providing advice during equipment failure for example). • Able to project manage effectively, setting quality standards, timescales, performance targets and goals, monitoring progress, checking results, providing support to other team members when required and writing reports. • Ability to teach and train others, including other staff groups, on highly specialist subjects. • Analytical problem solving ability, able to resolve complex issues and situations that are often unpredictable and do not fit a standard pattern. • Able to use Excel, Access and Word to set up documents, record and extract information and write reports. • Able to perform independent applied research and development. • Able to prepare and present scientific papers at local, national and international meetings and conferences. 	<ul style="list-style-type: none"> • E • E • D • D • E • E • D • D 	<ul style="list-style-type: none"> • A / I • A / I • A / I • A / I • A / I • A / I • A / I • A / I

	<ul style="list-style-type: none"> • Able to develop systems and write software and scripts (Python for example) relevant to radiotherapy computer systems. 	<ul style="list-style-type: none"> • D 	<ul style="list-style-type: none"> • A / I
Personal Qualities & attributes	<ul style="list-style-type: none"> • Able to communicate highly complex information to other healthcare professionals and equipment manufacturers. • Able to exercise own initiative when dealing with issues within own specialist area of competence. • High degree of physical accuracy and dexterity, for making precision measurements and equipment adjustments using fine tools. • Ability to motivate a wide cross-section of healthcare professionals and lead a team approach to work. • Able to maintain frequent periods of prolonged concentration, with often unpredictable work patterns (when collecting or analysing beam data and providing clinical advice for example). • Able to lift and move medium/heavy weights (beam data acquisition equipment and phantoms for example). • Able to deal with occasional distressing circumstances when (working with terminally ill patients for example). 	<ul style="list-style-type: none"> • E • E • E • E • E • D • E 	<ul style="list-style-type: none"> • A / I • A / I • I • I • I • I • I