Person Specification

**Job Title:** Radiotherapy Systems Engineer (Specialist Clinical Technologist)

**Specialism:** Radiation Technology

**Grade**: Band 6

**Department** Radiotherapy Physics

**Location**: BWoSCC, GGH & Lanarkshire Beatson

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| **Criteria** | **Essential** | **Desirable** |
| QUALIFICATIONS & TRAINING | A Degree in Medical Technology, Electrical/Electronic Engineering or other relevant discipline is essential. An HNC/HND or equivalent qualifications in Applied Physics or Electrical and Electronic Engineering or equivalent degree will be accepted provided the knowledge, training and experience profile matches the requirements of the post.  . | Registration on the Voluntary Register for Clinical Technologists (VRCT) held by the Institute of Physics and Engineering in Medicine (IPEM) is desirable. Membership of IPEM at an appropriate level is desirable. |
| EXPERIENCE | Relevant post-qualification experience is required for Degree and HNC/HND holders, with experience preferably as a Senior Practitioner Clinical Technologist or equivalent experience. Relevant experience includes:  Practical experience and training on highly complex radiotherapy technology including linear accelerators, treatment simulators, treatment simulators, kilovoltage x-ray equipment and the application of specialist fault finding techniques specific to computer/microprocessor control systems, high vacuum systems, high voltage and radiofrequency systems. This is evidenced through successful completion of suitable training courses and on-going in-house training. | Experience of participating in Teams, including contributing to managing resources, effective communication, writing standard operating procedures and knowledge of working policies and procedures.  Experience of the application of clinical technology to medical equipment in healthcare.  Training of technical staff and/or trainees either as individuals or in groups.  Giving presentations on medical equipment technology to technical staff.  Experience in the application of relevant legislation including the Health & Safety at Work, etc Act, 1974 [HSAW 1974], Medical Devices Regulations, 1994 [MDR 1994], British Standards for Radiotherapy Equipment, Ionising Radiations Regulations, 2017 [IRR 2017], Ionising Radiation (Medical Exposure) Regulations, 2000 [IRMER 2017], Medical and Dental Guidance Notes for Use of Ionising Radiation, 2017. |
| KNOWLEDGE, SKILLS AND ABILITIES | Staff at this level require advanced skills, knowledge and understanding gained by professional qualifications, training and practical experience. This will encompass:  The operation, function and purpose of a significant proportion of the broad range of complex medical equipment listed in Section 6, including electromechanical systems, computer systems, electronic engineering, equipment design and construction, fault diagnosis and repair to component level using a wide range of test equipment.  An advanced in-depth knowledge of radiation technology, including quality control and safety testing and a working knowledge of relevant legislation, national standards and quality systems.  A high level of in-depth understanding of patient and staff risks arising from equipment failure or misuse and how these can be minimised.  Policies and practices for managing highly complex medical equipment including planned preventive maintenance, inspection, testing, calibration and repair. | Evidence of continuing commitment to Continuing Professional Development (CPD) by the ongoing attendance at relevant study days, short courses and presentations for generic and specific competency on a wide range of highly complex medical equipment and their impact on clinical management, fulfilling the requirements of the Health Professions Council (HPC) as appropriate. |
| PERSONAL QUALITIES | Effective written and verbal communication, listening and interpersonal skills and time management skills  Evidence of the ability to work unsupervised, use own initiative and participation in a multidisciplinary team of scientists, technical staff, clinicians and/or nursing staff.  Evidence of caring attitude, with high level of empathy towards colleagues and patients. | Evidence in giving technical presentations at local level. |