

**Postdoctoral Research Scientist (Research physicist - functionally guided IMRT)
Grade 7 £29,099 - £35,788 per annum (with a discretionary range to £39,107)**

Department of Oncology

We have an exciting opportunity for a Postdoctoral Research Scientist to join a Group headed by Dr John Fenwick which is developing new radiotherapy treatments, using functional imaging, genomics, and biomarker data to improve anatomy-based IMRT and IGRT. In particular we are exploring specific targeting of hypoxic and rapidly proliferating tumour regions, enabling dose-escalation to be achieved with minimal increase in normal tissue toxicity.

The post-holder will quantify the variability of radiotracer uptake levels visualized in positron-emission-tomography (PET) tumour images collected using different imaging systems and reconstruction algorithms, and design radiobiological metrics (for transforming tumour function maps into maps of selective dose boosting) that are robust to imaging system variability.

The successful applicant will have a PhD in imaging or radiotherapy physics, or computational biology, a high level of technical competence in computational modelling and a good publication record. Experience of medical imaging and statistical analysis is desirable as is some background knowledge of both medical physics and computational biology.

This is a full-time post and is available until 30th September 2013 in the first instance.

A detailed job description and details on how to apply are available from our website at www.rob.ox.ac.uk or email: recruitment@rob.ox.ac.uk.

The closing date for applications is Wednesday 31st August 2011.

Please quote the reference AN-11-021-JF in all correspondence.