



Scientific Officer

Radiotherapy Physics Modelling (Prof Uwe Oelfke) Team

Candidate Information

April 2025

The Institute of Cancer Research

About our organisation

We are one of the world's most influential cancer research institutes with an outstanding record of achievement dating back more than 100 years. We are world leaders in identifying cancer genes, discovering cancer drugs and developing precision radiotherapy. Together with our hospital partner The Royal Marsden, we are rated in the top four centres for cancer research and treatment worldwide.

As well as being a world-class institute, we are a college of the University of London. We came top in the league table of university research quality compiled from the Research Excellence Framework (REF 2014).

We have charitable status and rely on support from partner organisations, charities, donors and the general public.

We have more than 1000 staff and postgraduate students across three sites – in Chelsea and Sutton.

Radiotherapy Physics Modelling Team

The team lead by Professor Uwe Oelfke is applying cutting edge Radiotherapy techniques in a multi-disciplinary setting to investigate the application of radiation in an in vitro and in vivo setting. We are seeking a highly motivated, proactive and well-organised individual to join the team. The post-holder will provide skilled laboratory assistance in pre-clinical projects in radiobiological and immunological research. The post holder will be responsible to provide ongoing first line support for our three x-ray radiation devices including performing the monthly quality assurance. The successful candidate will also be expected to contribute to the design and delivery of on-going research projects.

Our mission
is to make the
discoveries that
defeat cancer.

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Our values

The ICR has a highly skilled and committed workforce, with a wide variety of roles, each requiring different skills. But whether you work as a researcher, or work as part of our corporate team, your work and behaviour is underpinned by these six values. They are what bring us together as one team - as 'One ICR'.



Pursuing excellence

We aspire to excellence in everything we do and aim to be leaders in our field.



Acting with Integrity

We promote an open and honest environment that gives credit and acknowledges mistakes, so that our actions stand up to scrutiny.



Valuing all our people

We value the contribution of all our people, help them reach their full potential, and treat everyone with kindness and respect.



Working together

We collaborate with colleagues and partners to bring together different skills, resources and perspectives.



Leading innovation

We do things differently in ways that no one else has done before and share the expertise and learning we gain.



Making a difference

We all play our part, doing a little bit more, a little bit better, to help improve the lives of people with cancer.



Our values set out how each of us at the ICR, works together to meet our mission – to make the discoveries that defeat cancer. They summarise our desired behaviours, attitudes and culture – how we value one another and how we take pride in the work we do, to deliver impact for people with cancer and their loved ones.”

Professor Kristian Helin
Chief Executive

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Job description

Department / division: Radiotherapy and Imaging

Pay grade / staff group: Scientific Officer

Hours / duration: Full-time (35 hours per week). It may be necessary for the post-holder to work outside hours to meet specific deadlines. Monday to Friday.

Fixed-term contract for 3 years

Reports to: Professor Uwe Oelfke

Main purpose of the job: To provide first line user training and support and monthly quality assurance for the x-ray devices installed and support ongoing research activities across multiple projects.

Duties and responsibilities:

Main duties and responsibilities

Perform first line user training and support for all x-ray devices within the division. Assist users in delivering their experiments. Coordinate with the manufacturer of the devices to address any faults.

Perform monthly quality assurance and safety checks on all x-ray devices within the Division of Radiotherapy & Imaging & be responsible for day-to-day running of the devices

Support ongoing research activities across multiple disciplines.

Keep accurate records in laboratory notebooks.

Work in a flexible but organised manner to meet objectives/deadlines.

Work and communicate effectively with other members of the team.

Keep up to date with the relevant literature and participate in scientific discussions on ongoing projects.

Undertake any other duties that may be required which are consistent with the nature and grade of the post.

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General

All staff must ensure that they familiarise themselves with, and adhere to, any ICR policies that are relevant to their work and comply with ICR's guidelines and safe working practices.

To work in accordance with the ICR's Values.

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Person specification

Education and Knowledge

BSc. in Physics/ Biomedical Sciences (or equivalent)	E
MSc. In Physics and Engineering/Biomedical Sciences (or equivalent)	D
Basic knowledge of Radiotherapy	D

Skills

Good team player with the ability to work independently	E
Good organisation skills and attention to detail	E
Experience of working under pressure and adhering to established deadlines	E
Willingness to learn new skills	E
Ability to understand and discuss scientific projects	E

Experience

Work with external beam radiotherapy in vitro and in vivo	D
Basic radiation dosimetry	D
Developing scripts and small programs	D
Basic knowledge with Matlab, Python or C/C++	E

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Benefits

We offer a fantastic working environment, great opportunities for career development and the chance to make a real difference to defeat cancer. We aim to recruit and develop the best – the most outstanding scientists and clinicians, and the most talented professional and administrative staff.

The annual leave entitlement for full time employees is 28 days per annum on joining. This will increase by a further day after 2 years' and 5 years' service.

Staff membership to the Universities Superannuation Scheme (USS) is available. The USS is a defined benefit scheme and provides a highly competitive pension scheme with robust benefits. The rate of contributions is determined by USS and details of the costs and benefits of this scheme can be found on their website. If staff are transferring from the NHS, they can opt to remain members of the NHS Pension Scheme.

We offer a range of family-friendly benefits such as flexible working, a parents' group, and a maternity mentoring scheme. Other great benefits include interest free loans for discounted season tickets for travel and bicycle purchases, access to the NHS discounts website, a free and confidential Employee Assistance Programme which offers a range of well-being, financial and legal advice services, two staff restaurants, and access to a gym and sporting facilities at our Sutton site.

Further information

You may contact Professor Uwe Oelfke for further information by emailing Uwe.oelfke@icr.ac.uk. This job description is a reflection of the current position and is subject to review and alteration in detail and emphasis in the light of future changes or development.