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# Scientific Officer: Evolution & Translational Genomics

## Candidate Information

August 2025

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### 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.

#### About our Centre

The Centre for Evolution and Cancer (CEC), within the Division of Cancer Biology, is a multidisciplinary centre, comprising around 50 staff dedicated to understanding cancer evolution and leveraging this knowledge for translational benefit. Our interests span early detection through to treatment of metastatic disease. The CEC brings together expertise in evolutionary theory, computational biology and bioinformatics together with cutting-edge research ability in cell and molecular biology to provide a stimulating and creative interdisciplinary environment where new approaches to tackling cancer can thrive.

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### About our team

The Evolution & Translational Genomics team combine molecular and cellular biology together with bioinformatics and computational biology to study the evolution of malignancy and its impact on treatments in the clinic. We focus on head and neck cancer evolution and treatment response, collaborating with other teams focused on gastrointestinal and gynaecological malignancies. We perform basic research into the biology of the human body in health and disease and translate our findings to improve clinical care of patients affected by cancer.

We are based at the ICR Sutton site within the Centre for Evolution and Cancer, located in the outstanding facilities of the new Centre for Cancer Drug Discovery building.

The team is highly experienced in computational biology and bioinformatics that is closely coupled to biological and clinical data. We generate unique functional and clinical sample multi-omic data in-house and combine it with large publicly available datasets, to understand why cancers respond to treatments such as radiotherapy and immunotherapy. The focus of this role is radiotherapy and the genomic determinants of radiotherapy response, specifically in head and neck and colorectal cancers.

You will be joining a diverse and interdisciplinary team of 9 people, consisting of clinicians, biologists, mathematicians and computational scientists.

Our ideal candidates will have previous interdisciplinary experience, a strong track record in bioinformatics or computational biology, and a keen interest in cancer evolution and genomics. Senior scientists will provide full training in new techniques, and support will be available for attending training courses and appropriate academic meetings.

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Our mission  
is to make the  
discoveries that  
defeat cancer.

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Job description

Department / division:	Centre for Evolution and Cancer Division of Radiotherapy & Imaging
Pay grade / staff group:	Scientific Officer
Hours / duration:	Full time (35 hours per week), Monday to Friday. Fixed term contract for 1 year
Reports to:	Dr Ben O’Leary
Main purpose of the job:	To develop workflows for identifying variants in cancer-associated viral genomes.

Duties and responsibilities:

KEY DUTIES AND RESPONSIBILITIES

The principal duty of the post will be to support the computational biology team within the lab in the processing of sequencing data generated from patients with head and neck cancer. The post holder will perform computational analyses of data existing or produced within the laboratory, together with the analyses of public datasets.
To support lab members in working towards publication record of the kind that will enhance the lab and Centre’s research reputation at national and international level and that will clearly demonstrate originality and scholarship.
To attend and participate in Centre’s academic activities, e.g. laboratory and journal club meetings, research group meetings and weekly seminars.
To make research initiatives and original contributions to the research programme wherever possible and to contribute freely to the team research environment in a manner conducive to the success of the research project as a whole.

GENERAL DUTIES

To perform bioinformatic and statistical analysis of data as required by the project.
To collect and analyse data other sources of data as required by the project.

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To maintain appropriate databases, keeping accurate written and computerised records and to ensure that these records are stored in a secure place and to maintain confidentiality of all electronically stored personal data in line with the provisions of the Data Protection Act.

To prepare reports and scientific publications to disseminate results from the programme of research.

To keep up to date with specific, clinical and professional issues, in particular developments in the specific subject area.

To undertake literature searches to explore potential research projects and to be able to interpret and present the findings of the literature searches and advise the research teams appropriately regarding potential projects.

To supervise and train where necessary new members of the research team.

To assist in drafting budgets and applications for potential research projects and grants.

Undertake such other duties as may be reasonably expected by the line manager or Head of Department.

### General

All staff must ensure that they familiarise themselves with and adhere to any ICR policies that are relevant to their work and that all personal and sensitive personal data is treated with the utmost confidentiality and in line with the General Data Protection Regulations

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

To work in accordance with the ICR's Values.

To promote a safe, healthy and fair environment for people to work, where bullying and harassment will not be tolerated.

This job description is a reflection of the present position and is subject to review and alteration in detail and emphasis in the light of future changes or development.

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### Person specification

#### Education and Knowledge

BSc in bioinformatics or computational biology.	Essential*
MSc in bioinformatics of cancer	Desirable

*\*as a minimum requirement candidates must have submitted their thesis by the start date of their employment and awarded their degree within the six month probationary period*

#### Skills

Ability to perform advanced bioinformatics analysis of cancer genomes	Essential
Ability to write efficient computer code	Essential
Ability to perform statistical inference and/or machine learning analyses	Desirable
Good communication skills and the ability to interact effectively with other team members.	Essential
Good observation skills, attention to detail and ability to keep appropriate records.	Essential
Ability to work independently and to demonstrate initiative in planning and designing experiments.	Essential
Good time management skills and a proven ability to organise and prioritise workload to meet deadlines.	Essential
Ability to prepare scientific reports and present data at regular project meetings.	Essential
Computer literate with ability to use e.g. MS Office, web-based tools and databases.	Essential

#### Experience

Research experience of computational genomics for precision oncology	Desirable
Knowledge of somatic evolution and/or cancer evolution	Desirable
Ability to interpret the scientific literature and incorporate this into the project	Essential
Proven ability to work effectively in an interdisciplinary team	Essential
Proven ability to maintain accurate and up to date records	Essential
Understanding of the research process	Essential

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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 Dr Ben O'Leary for further information by emailing [ben.oleary@icr.ac.uk](mailto:ben.oleary@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. **Please DO NOT send your application to Dr Ben O'Leary, but apply via the e-recruitment system on our website [www.icr.ac.uk](http://www.icr.ac.uk)**

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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