
Analytical Scientist in Data Science

Candidate Information



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Molecular Oncology team

Candidate Information

June 2026



The Molecular Oncology Laboratory, headed by Professor Nicholas Turner, focuses on identifying and understanding resistance to breast cancer treatments with the objective of designing novel approaches to treating cancer. In addition, we are developing novel precision medicine strategies for breast cancer using circulating free DNA and other non-invasive assays of breast tumour phenotypes, with the aim to use such assays to personalise breast cancer therapy.

About the Data Scientist position

We are looking to appoint a Data Scientist/Bioinformatician with strong ML skills to work as part of our multidisciplinary team to deliver the next generation of biomarker-based clinical studies in breast cancer. The position will be line managed by Dr Ros Cutts, Senior Bioinformatician (Liquid Biopsy) at the ICR.

The Molecular Oncology lab is increasingly producing more complex high dimensional datasets that require novel analytical approaches and we are looking to appoint someone with strong computational statistics/machine learning skills that can apply novel statistical approaches for data analysis.

This position is offered on a fixed term 2 year contract. Starting salary is in the range of £39,805 - £50,862 per annum inclusive, based on experience.

In addition to annual performance related pay awards, the salary scales are reviewed annually to consider cost of living increases.

Annual leave entitlement is 28 days per annum. There is an additional entitlement to 8 bank/public holidays and 3 ICR-set privilege days.

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About the Division of Breast Cancer Research and Breast Cancer Now Toby Robins Research Centre

The Breast Cancer Now Toby Robins Research Centre, in the Division of Breast Cancer Research at the ICR, is the first centre in the UK entirely devoted to breast cancer research. Our goal is to advance research into the causes, diagnosis and treatment of breast cancer. It is located in state-of-the-art laboratory space, with excellent core facilities. The Division & Centre is directed by Clinician Scientist Professor Andrew Tutt. Professor Chris Lord is Deputy Director of the Division & Centre.

Our Breast Cancer Research Centre was recently awarded the 2022 AACR Team Science award with our breast cancer clinical research partners in the ICR's CTSU clinical trial unit and Royal Marsden Hospital.

Our mission
is to make the
discoveries that
defeat cancer.

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About our organisation

The Institute of Cancer Research, London, is one of the world's most influential cancer research institutions with an outstanding track record of achievement dating back more than 100 years. Our mission is to make the discoveries that defeat cancer.

As well as being one of the UK's leading higher education institutions in research quality and impact, the ICR is consistently ranked as one of the world's most successful for industry collaboration. As a member institution of the University of London, we also provide postgraduate higher education of international distinction.

We are also a charity and rely on the support of partner organisations, funders, donors and the general public.

[Read more](#) to find out about our history, culture, and achievements, and how our funders, supporters and partnerships help drive our work.

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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:	Breast Cancer Research, Molecular Oncology
Pay grade / staff group:	Analytical Scientist 2
Hours / duration:	Full time 35 hours per week, Monday to Friday. Fixed term contract for 2 years
Reports to:	Dr Ros Cutts - Senior Bioinformatician (Liquid Biopsy)
Accountable to:	Professor Nick Turner
Main purpose of the job:	Statistical analysis of multidimensional data sets

Duties and responsibilities:

Specific duties:

- To be able to analyse data derived from large scale NGS experiments
- To investigate new statistical approaches and methods for data analysis of complex genomic datasets.
- To perform statistical analysis in R or python
- To support laboratory scientists and bioinformaticians in analyses, management and retrieval of data
- To contribute to the preparation of reports on the work carried out in the laboratory
- To work under supervision and consult when appropriate
- To take an interest in recent scientific literature

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.

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Person specification

Education and Knowledge

BSc in Biomedical sciences, computing science, genomics, mathematics or statistics or any other relevant field	Essential
MSc in biostatistics/computational biology/statistics or equivalent	Essential
Understanding and strong interest in ML and its application to biological datasets	Desirable
Knowledge of Next Generation Sequencing Technologies and workflows	Desirable
PhD in relevant discipline or work experience in a similar role	Desirable

Experience

Relevant experience in the development of algorithms for the analysis of large data sets	Essential
Experience in a statistical programming such as R or Python	Essential
Proven organisational skills	Essential
Strong analytical skills and attention to detail	Essential
Good record keeping	Essential
Experience working on HPC systems	Desirable
Experience in Unix/Linux and shell scripting	Desirable
Experience in working with NGS datasets and analysis	Desirable
Proven ability to independently implement and optimise analysis projects	Desirable

General

Committed and enthusiastic, with a keen desire to produce high quality scientific data	Essential
Committed to learning and developing new techniques/approaches	Essential
Ability to interact effectively with other team members and work as a part of a dynamic team to drive projects forward	Essential
Ability to follow instructions, protocols and guidance	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 Ros Cutts or for further information by emailing ros.cutts@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.