## Mathematical Biologist

The Cancer Research UK Manchester Institute, Manchester, UK

**Apply**
- Salary within the range of £24,776 – £41,536 (depending upon experience)
- Job Ref: MI/18/28
- Duration of post: fixed term until 31st March 2022

### About the role:

The overall goal of the Clinical and Experimental Pharmacology Group (CEP) in the CRUK Manchester Institute, led by Professor Caroline Dive CBE, is to develop, validate, and implement biomarkers that facilitate the optimisation of cancer patient treatment – personalised medicine. The overall goal of our Drug Discovery Unit (DDU), led by Professor Caroline Springer is to discover and develop new treatments for cancer patients.

The DDU and CEP have strong track records in bringing new therapies to the cancer clinic and the implementation of biomarkers (notably liquid biopsies) for patient management. Mathematical biology is critical to research missions to deliver personalised medicine to cancer patients. Specifically, we require skills in pharmacokinetic and pharmacodynamic (PK/PD) modelling and simulation in preclinical studies and in early clinical trials, along with input to biomarker biostatistics studies.

An exciting opportunity now presents for a Mathematical Biologist to join CEP and the DDU, positioned within the newly established Manchester Centre for Cancer Biomarker Sciences (MCCBS) Bioinformatics and Biostatistics team (BBS) led by Dr Crispin Miller. You will work alongside a multidisciplinary team of clinicians, biologists, chemists and computational scientists to conduct PK/PD modelling and biostatistics analysis using existing methods and, where relevant, to develop novel methods. The post will encompass a range of developmental therapeutic studies in preclinical models and biomarker analyses on clinical trials. The post will be associated with the Centre of Applied Pharmacokinetic Research (CAPKR) led by Prof Leon Aarons within the Division of Pharmacy and Optometry at The University of Manchester.

### About you:

You should have at least a BSc in a biomedical, pharmaceutical or physical science research area (or related discipline) plus significant relevant experience. Experience in
PK/PD modelling and simulation and/or advanced statistics is desirable, alongside an understanding of biology and/or drug discovery processes.

You will also have excellent communication skills and the ability to converse successfully with interdisciplinary collaborators from non-mathematical backgrounds. Experience of multidisciplinary teamwork will confer an advantage and a working knowledge of bioinformatics would be beneficial.

**Why choose Cancer Research UK Manchester Institute?**

The Cancer Research UK Manchester Institute ([www.cruk.manchester.ac.uk](http://www.cruk.manchester.ac.uk)), an Institute of The University of Manchester ([www.manchester.ac.uk](http://www.manchester.ac.uk)), is a world-leading centre for excellence in cancer research. The Institute is core funded by Cancer Research UK ([www.cancerresearchuk.org](http://www.cancerresearchuk.org)), the largest independent cancer research organisation in the world. We are currently situated at the internationally-renowned life sciences campus at Alderley Park in Cheshire England, 15 miles from Manchester, a vibrant and dynamic city surrounded by beautiful countryside.

We are partnered with The Christie NHS Foundation Trust (adjacent to the CRUK MI Paterson Building) in South Manchester ([www.christie.nhs.uk](http://www.christie.nhs.uk)), one of the largest cancer treatment centres in Europe. These factors combine to provide an exceptional environment in which to pursue basic, translational and clinical research programmes.

**How to apply?**

To apply for this position please visit our website: [http://www.cruk.manchester.ac.uk/Opportunities/Opportunities-Home](http://www.cruk.manchester.ac.uk/Opportunities/Opportunities-Home)

For any informal enquiries about this post, please contact Professor Caroline Dive CBE via email: caroline.dive@cruk.manchester.ac.uk, Caroline Springer, email: caroline.springer@cruk.manchester.ac.uk or Crispin Miller, email: crispin.miller@cruk.manchester.ac.uk

**Closing date: 3 June 2018.**

[https://www.statsjobs.com/job/mathematical-biologist/](https://www.statsjobs.com/job/mathematical-biologist/)