Research Fellow in Multiomics Data Integration and Analysis

University of Birmingham
Birmingham, UK
30,395 to £39,609

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We are looking to recruit an enthusiastic research bioinformatician who will lead the development of novel approaches for the analysis of multimodal omics generated from clinical and basic sciences in close collaboration with domain experts.

The post holder will be part of the Centre for Computational Biology (CCB). The CCB serves as a nexus of bioinformatics and computational biology expertise in the university, driving cutting-edge research in areas of clinical, environmental, and mathematical biology. Along with strong links to a collegiate group of bioinformaticians in the CCB, strong collaborative links exist with the Birmingham University Hospitals NHS Trust via the Institute of Translational Medicine where the post holder will reside as part of an interdisciplinary team analysing omics, images, databases, and unstructured free text health data. Additionally, the post holder will be part of the Health Data Research UK.

The position requires the ability to independently take responsibility over scientific projects, strong teamwork and communication skills, reliability, attention to detail, and effective time management. Applicants should have a PhD or equivalent experience in Bioinformatics, Computer Science, Genetic Epidemiology, or Statistics, including a firm grounding in genetics and molecular biology. Likewise, candidates with a sound and proven genetics background and excellent computational and quantitative skills are encouraged to apply. A relevant degree, at a minimum of a 2:1 classification or equivalent is also required.

Main Duties:

- Develop research objectives and proposals for own or joint research, with assistance of a mentor if required
- Contribute to writing bids for research funding
- Analyse and interpret data
- Integrate disease-gene annotations from model organisms with human phenotypic and genomic data to prioritize causative variants of both mendelian and complex human disease
- Manipulate, integrate, and analyse diverse data of different dimensions and quality, residing in distributed sources and deriving from different biological contexts and species
- Contribute to development of ontology-based definitions of medical phenotypes in select complex disease areas to support the development of large biomedical knowledge graphs representing clinical and research information
- Create pipelines to process, analyse, and integrate multiple (epi)genomics/transcriptomics sequencing and array-based experiments.
- Apply cutting edge machine learning methods to integrate multi-omics data with real-world clinical outcomes data in consultation with clinical experts

Drive novel applications and take responsibility over large and diverse projects within the ITM and the CCB together with model organism researchers and clinicians.

For informal enquiries, please contact CCB Centre Manager Jessica Mylchreest, j.mylchreest@bham.ac.uk or +44 (0) 121 414 7012

**Closing date: 14 July 2019 Reference: 81356**

To download the full job description and details of this position and submit an electronic application online please click on the Apply Online button below or visit www.hr.bham.ac.uk/jobs Please quote Job Ref 81356 in all enquiries.

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