

## Imperial College London

### ***Research Assistant / Research Associate - Bioinformatics***

Salary Range:

£28,200 – £31,250 per annum (Research Assistant)

£28,200 – £40,720 per annum (Research Associate)

[https://www4.ad.ic.ac.uk/OA\\_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&OAHP=IRC\\_EXT\\_SITE\\_VISITOR\\_APPL&OASF=IRC\\_VIS\\_VAC\\_DISPLAY&akRegionApplicationId=821&transactionid=1039260861&retainAM=Y&addBreadCrumb=RP&p\\_svid=41463&p\\_spid=1629971&oapc=14&oas=PCg8pgVe1JgJhtpqpOyGkA..](https://www4.ad.ic.ac.uk/OA_HTML/OA.jsp?page=/oracle/apps/irc/candidateSelfService/webui/VisVacDispPG&OAHP=IRC_EXT_SITE_VISITOR_APPL&OASF=IRC_VIS_VAC_DISPLAY&akRegionApplicationId=821&transactionid=1039260861&retainAM=Y&addBreadCrumb=RP&p_svid=41463&p_spid=1629971&oapc=14&oas=PCg8pgVe1JgJhtpqpOyGkA..)

A talented and motivated bioinformatician or computational/statistical scientist is required to support on-going projects within the Section of Computational and Systems Medicine. The post will involve developing, adapting and applying current and novel statistical and bioinformatic techniques for the integration and exploration of post-genomic data across a broad range of areas. These include metabolomics, transcriptomics and genomics, as well as relating the omics data to conventional toxicity, exposure and disease endpoints. The projects to be supported are: diXa (Data Infrastructures for Chemical Safety) and HELIX (Building the Early Life Exposome).

The diXa project aims to coordinate data and knowledge from seven existing toxicogenomics projects, aiding in the development of in vitro tests for chemical safety. A key challenge is the integration and exploration of relationships between diverse data sets, as well as examining how biological effects replicate across different studies.

The HELIX project aims to exploit novel tools and methods to characterise early-life exposure to a wide range of environmental hazards, and integrate and link these with data on major child health outcomes, thus developing an Early-Life exposome approach. HELIX uses six existing, prospective birth cohort studies as the only realistic and feasible way to obtain the comprehensive, longitudinal, human data needed to build this early-life exposome. These cohorts have already collected large amounts of data as part of national and EU-funded projects. Results will be integrated with data from European cohorts (>300,000 subjects) and registers, to estimate health impacts at the European scale.

Applicants should hold a Masters degree or equivalent in bioinformatics, biostatistics, chemometrics or similar field (for appointment as Research Assistant) (for the right candidate the possibility exists of registering for a part-time PhD degree to run concurrently with this appointment), or a PhD or equivalent (for appointment as Research Associate) in bioinformatics, biostatistics, chemometrics or similar field and have experience in multivariate data analysis techniques (chemometrics, machine learning, pattern recognition).

This full time position is offered for a fixed-term of up to 17 months in the first instance, and will be based at the South Kensington campus.

For further information please contact: Dr. Tim Ebbels ([t.ebbels@imperial.ac.uk](mailto:t.ebbels@imperial.ac.uk)) or Dr Hector Keun ([h.keun@imperial.ac.uk](mailto:h.keun@imperial.ac.uk)).

Our preferred method of application is online via our website <http://www3.imperial.ac.uk/employment>. Please complete and upload an application form as directed.

Reference number: SM144-13

Closing date: **22 July 2013**

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