



**UCD Post-doctoral Research Fellow Level 1, School of Medicine / Systems Biology
Ireland, Temporary, 46 months
Job Ref: 015626**

Applications are invited for a Temporary 46-month post of a UCD Post-doctoral Research Fellow Level 1 within School of Medicine / Systems Biology Ireland.

University College Dublin is recruiting a Postdoctoral Research Fellow to work on a lab-based childhood cancer research project at Systems Biology Ireland funded by the Children's Health Foundation under the SFI Frontiers for the Future programme. The aim of the project is to unravel and understand mitochondrial regulation of epigenetics in neuroblastoma; and exploit this molecular understanding to identify novel therapeutic avenues for the highly aggressive forms of this childhood cancer. The successful applicant will be part of the Halasz group (<https://www.ucd.ie/sbi/team/groups/halaszgroup/>) that is based at Systems Biology Ireland, and which has close collaborations with computational researchers and paediatric oncologists at Children's Health Ireland at Crumlin.

To be successful in the role, the fellow should be competent in cell culture and have a broad repertoire of technical skills and methods used for the analysis of signalling networks and epigenetic modifications, including strong expertise in cell biology, biochemistry, and molecular biology. Familiarity with transcriptomics and/or metabolomics and/or proteomics is preferable. The fellow will be expected to work closely with computational researchers and should be self-motivated and able to independently develop and execute project-related aims.

This is a research focused role, where you will conduct a specified programme of research supported by research training and development under the supervision and direction of a Principal Investigator.

The primary purpose of the role is to further develop your research skills and competences, including the processes of publication in peer-reviewed academic publications, the development of funding proposals, the mentorship of graduate students along with the opportunity to develop your skills in research led teaching.

Systems Biology Ireland (SBI, www.ucd.ie/sbi), established in 2009, has successfully developed an integrated mathematical modelling and experimental research programme focusing on the design of new diagnostic and therapeutic approaches to diseases, primarily cancer, based on a systems level, mechanistic understanding of cellular signal transduction networks. To accomplish these goals, SBI uses mathematical and computational modelling approaches in combination with cutting edge experimental technologies in genomics, transcriptomics, proteomics, advanced microscopy, and flow cytometry as well as cell biology and molecular biology methods. SBI's expertise, particularly in the area of modelling in systems pharmacology and therapeutics, strategically position it at the crossroads between biology and medicine. The purpose-built SBI facility sits in the space between the UCD Conway Institute and the Health Sciences Centre (UCD Charles Institute of Dermatology and School of Medicine). It is physically linked to both buildings, providing access to existing technology platforms, educational and conference facilities and ideally placed to train allied healthcare professionals.

Salary: €41,209 per annum

To apply, visit <https://www.ucd.ie/workatucd/jobs> and search using reference number: 015626.

Closing date: 17:00hrs (local Irish time) on **6th of March 2023**