



[Systems biology of drug resistance in cancer](#) research group at the University of Helsinki, Faculty of Medicine is seeking outstanding candidates for

POST-DOCTORAL RESEARCHER AND GRADUATE STUDENT POSITIONS

The open positions are in the fields of systems biology and translational cancer research in project funded by EU Horizon 2020 ([HERCULES](#)) and Academy of Finland (OVCURE). The goal of the HERCULES project is to use cutting-edge single-cell measurement technologies and computational methods to identify drug resistant cell populations and develop combinatorial treatments to effectively kill drug resistant cancer cells. The goal of the OVCURE project is to develop and apply integrative computational methods to identify predictive models for treatment efficacy by taking an advantage of multi-level big omics data (e.g., transcriptomics, genomics, genetics, epigenetics, and proteomics jointly with clinical and functional information). Both projects are based on prospective ovarian cancer patient clinical samples taken before and after the treatment.

We are looking for an ambitious post-doctoral researcher and a doctoral student with strong enthusiasm towards science. A successful candidate has strong background in applied mathematics, machine learning, multivariate statistics, computer science, programming or bioinformatics. Basic understanding of cancer biology or genetics/genomics considered as an asset and ability to work together with medically/biologically oriented researchers is required.

Initial contract of employment will be done for minimum of two years and the starting date is to be agreed, preferably at spring 2017. Trial period of four months will be applied. Salary will be based on the Universities salary scheme for teaching and research personnel composed of both task specific and personal performance components.

We offer an international multidisciplinary research environment with state-of-the-art facilities. The research will be carried out in the Systems biology of drug resistance in cancer research group in collaboration with highly skilled groups with complementary expertise in biochemistry, molecular biology, high-throughput molecular technologies, mathematical and computational modelling, and clinics. The Systems Biology research group belongs to Research Programs Unit (RPU) of the Faculty of Medicine and operates at the Meilahti Campus, the Academic Medical Center Helsinki, where the close vicinity of the research laboratories with Helsinki University Hospital and Finnish Institute for Molecular Medicine supports the integration of biomedical, translational, and clinical research.

To apply, please submit your application letter, CV, publication list and names of two references in a single PDF document through the university's electronic recruitment system by February 1st, 2017:

Postdoc position:

<https://www.helsinki.fi/en/open-positions/post-doctoral-researcher-position-in-systems-biology-of-drug-resistance>

Graduate student position:

<https://www.helsinki.fi/en/open-positions/doctoral-student-position-in-systems-biology-of-drug-resistance>

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