IBM Research - Zurich
Post-doc: Biomedical technologies for tumor profiling

molecular biology | sequencing | immunoassays | cell handling | tumor biology | microfluidics

About the position

A postdoctoral position is available for our activities on biomedical technologies at the Research Laboratory of IBM in Zurich. These activities aim at applying IBM's expertise in microtechnology and microfluidics towards the development of next generation bioanalytical tools in the context of personalized tumor profiling. This multidisciplinary research is problem-oriented and is pursued in collaboration with a world leading partner on tumor profiling. In this position, research will focus on applying IBM's microfluidic probe (MFP) technology to profiling tumors locally. MFP is a non-contact, scanning microfluidic device that can pattern surfaces with proteins in an additive and subtractive manner, form gradients of proteins on surfaces and interacts with cells and tissue sections. Part of this work is within the framework of a European Union project (BioProbe, www.bioprobe.eu).

This position is available from approximately September 2017 for a duration of 18 months. The successful candidate will enjoy an internationally competitive salary and work within a collaborative and creative group in an exclusive research environment for a specific application.

The candidate will have the primary responsibility to advance methods and technologies for molecular profiling of tumor (biopsy) samples using the microfluidic probe with group members and an experienced external partner.

Requirements

- The ideal candidate will have experience in cell/tissue-based assays, immunoassays, immunohistochemistry, molecular biology assays (including sequencing), optical microscopy and analytical techniques (e.g. PCR, Electrophoresis).
- A strong background on tumor profiling and biology will be highly beneficial.
- The candidate **must have some experience in microfluidics**, small volume fluid handling/manipulation.
- The candidate must be **keen on driving an experimental program** coupled, if possible, with analytical/numerical analysis.
- Systems design, Matlab/LabView interface programming and troubleshooting skills will additionally be beneficial.
- The candidate must be self-driven, highly motivated and is required to multitask efficiently.

How to apply

Candidates are welcome to send a single PDF file that includes a CV (a list of publications, and list of skills) and contact information for three references to:

Dr. Govind Kaigala, e-mail: gov@zurich.ibm.com
IBM Research – Zurich, Säumerstrasse 4 CH-8803 Rüschlikon, Switzerland

Further information:
www.research.ibm.com/labs/zurich/st/precision_diagnostics/probe.html
Application per e-mail is preferred.

Diversity
IBM is committed to diversity at the workplace. With us, you will find an open, multicultural environment. Excellent, flexible working arrangements enable both women and men to strike the desired balance between their professional development and their personal lives.