

The Institute of Biochemistry II, Gustav Embden Center of Biochemistry (Director: Prof. Dr. Ivan Dikic), Department of Medicine of the Goethe-University, is looking for a

Research Associate (PhD student / PostDoc)

to work on projects in the field of

Innovative computational approaches to analyze genetic interactions.

The position is to be filled immediately and initially temporary for 3 years.

Activities and responsibilities - Based on a recently published technology (<https://elifesciences.org/articles/42549>), we utilize single and multiplexed CRISPR/Cas gene editing libraries to investigate genetic interactions in the context of genome stability and tumorigenesis. Analyzing the Next Generation Sequencing data sets resulting from multiplexed high-throughput cellular screens requires novel computational approaches. We seek an ambitious and highly motivated new team member who will develop innovative statistical models and computational tools and algorithms to systematically analyze the functional relationships of genetic interactions in these data sets.

We seek - The candidate holds a Master's degree (or equivalent) in bioinformatics, biostatistics, informatics, applied mathematics or a similar area and has very good programming skills in Python, R, Java, or similar languages. A high interest in academic research, high-level analytical thinking, and team-oriented personality with good communication skills are mandatory. Prior experience with NGS data and biological network analyses is preferred. Experience in machine learning applications is advantageous but not strictly required. Very good written and spoken English is expected.

We offer - A versatile workplace in a university research institute consisting of 11 working groups, spread across 3 locations of the Goethe University, tariff-compliant remuneration according to TV-G-U and the possibility of using the LandesTicket for employees of the state of Hesse.

The university advocates equal rights for women and men and therefore urges women to apply. Handicapped candidates are given preferential treatment with equal personal and professional qualifications.

Please send your application documents, including your CV, certificates, and an advanced self-written code example preferably in Python, with your earliest starting date to Manuel Kaulich, Institute of Biochemistry II, Department of Medicine, University Hospital of Goethe University, House 75, Theodor-Stern-Kai 7, 60590 Frankfurt am Main. Please send electronic applications in a single PDF to kaulich@em.uni-frankfurt.de.

Travel and application costs cannot be reimbursed.

Please do not send any original documents as the application documents will not be returned.