

The **Department of Medicine**, Institute for Medical Bioinformatics and Biostatistics, AG Chung, is currently accepting applications for a

## Research Assistant (Doctoral Researcher)

The position is offered for a period of 3 years, if no former times of qualification must be considered. The earliest starting date is the 1st of September 2021. The position is part-time (65 % of regular working hours) with salary and benefits commensurate with a public service position in the state Hesse, Germany (TV-H E 13, 65 %).

The project “Identifying cell-type-resolved gene expression changes in pancreatic ductal adenocarcinoma from bulk RNA-seq data“ is part of the German Research Foundation (DFG) funded collaborative Clinical Research Unit (CRU325) “Clinical relevance of tumor-microenvironment interactions in pancreatic cancer“. It deals with the development of algorithms to uncover cell-type-specific gene expression changes dependent on clinically relevant endpoints of pancreatic-cancer-patients from bulk RNA-seq data.

The tasks include scientific research, in particular the development of databases and web-front-ends for the Clinical Research Unit, the development, validation and application of algorithms that uncover cell-type-specific gene expression patterns from bulk RNA-seq data representing complex mixtures of different cell types with the aim to elucidate cell-type-specific gene expression changes.

The position is limited to a time period deemed adequate for the completion of a doctoral degree. As part of the assigned duties, there will be ample opportunity to conduct the independent scientific research necessary for the completion of a doctorate. The limitation complies to § 2, 1 WissZeitVG.

The successful applicant will hold a MSc-degree or equivalent in Computer Science, Bioinformatics, Mathematics or Physics, has excellent programming expertise (R, Python (Tensorflow), C++, JavaScript) and knowledge in probability theory and multivariate statistics. Disposition to own scientific qualification is expected.

Feel free to contact Prof. Dr. Ho Ryun Chung via email [ho.chung@staff.uni-marburg.de](mailto:ho.chung@staff.uni-marburg.de) for more information.

We actively support the professional development of junior researchers, e.g. by the offers of Marburg Research Academy (MARA), the International Office, the Higher Education Didactics Office and the Human Resources Development Office.

We support women and strongly encourage them to apply. In areas where women are underrepresented, female applicants will be preferred in case of equal qualifications. Applicants with children are welcome - Philipps-University is certified as a family-friendly university. Sharing a full-time position (§ 8 Abs. 2 S. 1 HGI) as well as a reduction of working time is possible. Applicants with a disability as described in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal qualifications. Application and interview costs can not be refunded.

Please send your application mentioning registration number fb20-0149-wmz-2021 as a single PDF file to Prof. Dr. Ho Ryun Chung, [imbe@uni-marburg.de](mailto:imbe@uni-marburg.de) before 20<sup>th</sup> of August 2021.