

Academic/Industrial Post-doc Position in Computational Biology

Multi-modal single-cell data Integration for target discovery

The Institute of Experimental Medicine and Systems Biology at the University Hospital RWTH Aachen, Germany ([UK-Aachen Institut fuer Experimentelle Innere Medizin u. Systembiologie](#)) and Novo Nordisk ([Novo Nordisk](#)), are looking for a highly motivated and team-oriented Post-doc with interest in computational biology to join the Hayat Lab in Translational Data Science in collaboration with the Kramann Lab, and Bioinformatics and Data Mining department at Novo Nordisk.

The **2-year position** is funded by an **Industrial-Academic research collaboration with Novo Nordisk**, Denmark.

THE PROJECT	YOUR PROFILE	THE POSITION
<ul style="list-style-type: none"> The candidate will lead a project at the forefront of multi-modal single-cell research including single cell/ nuclear RNA-seq, snATAC-seq data integration. Work on an own project and contribute to ongoing projects in the lab aimed to gain new insights in understanding disease mechanisms with a major focus on kidney and cardiovascular disease. Develop tools for systematic data-driven discovery of new therapeutic targets and biomarkers. 	<ul style="list-style-type: none"> PhD in a quantitative discipline, e.g. Bioinformatics, computer/ data science. Good knowledge of programming in Python/ R Good knowledge of computational tools (Scanpy/ Seurat), basic regression and classification analysis. Experience with transcriptomic data analysis. Experience with sc/ snRNAseq data integration and a basic understanding of biology is preferred. Familiarity with advanced statistical and machine learning is preferred. Fluent English skills. Excellent teamwork skills. 	<ul style="list-style-type: none"> The scientist will be hosted at the Institute of Experimental Medicine and Systems Biology at University Hospital, Aachen. This position will involve regular interaction, mentoring, brain storming, meetings and a short-term stay at Novo Nordisk, Copenhagen, Denmark The position provides a unique opportunity to experience both industrial and academic research. The University provides a highly collaborative and international research environment.

The University is a vibrant place and an official Excellence University of Germany. A large number of international doctoral students, postdocs and researchers are active in teaching and research at our University's Institutes. Our Welcome Services and Center for international researchers are available for candidates coming to RWTH Aachen from abroad, and offers advice and support during preparations for and throughout the stay and also helps with all non-academic questions about the stay in Aachen (<http://www.rwth-aachen.de/go/id/opt/lidx/1>). The position will be funded according to German public service salary scale level TV-L 13 (100%). The position is starting as soon as possible.

For more information about our team and recent work see <http://www.kramannlab.com> and <http://hayatlab.org>

Please send applications to Prof. Kramann (rkramann@ukaachen.de) or Dr. Sikander Hayat (shayat@ukaachen.de), the selected applicants will be invited for a skype / online interview.