

The mission of the Berlin Institute of Health (BIH) is medical translation: transferring biomedical research findings into novel approaches to personalized prediction, prevention, diagnostics and therapy and, conversely, using clinical observations to develop new research ideas. The aim is to deliver relevant medical benefits to patients and the population at large. The BIH is also committed to establishing a comprehensive translational ecosystem as translational research area at Charité –one that places emphasis on a system-wide understanding of health and disease and that promotes change in the biomedical research culture. The BIH is funded 90 percent by the Federal Ministry of Education and Research (BMBF) and 10 percent by the State of Berlin. The two founding institutions, Charité – Universitätsmedizin Berlin and Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC), were independent member entities within the BIH until 2020. As of 2021, the BIH has been integrated into Charité as the so-called third pillar; the MDC is privileged partner of the BIH.

For 3 years starting from 01.06.2021 the Digital Health Center of BIH is looking for a

**PostDoc - sequencing meets imaging
in full-time (39h/week)**

The Intelligent Imaging research group at the Digital Health Center, headed by Prof. Christian Conrad, develops and applies innovative deep learning workflows to translational research with a focus on imaging and spatial transcriptomics. This includes versatile high-throughput imaging and integrative computer vision for personalized medical research. The group has a strong standing within international consortia (e.g. Human Cell Atlas, EASI Genomics, Horizont 2020), using advanced microscopy systems and exceptional computational resources (e.g. Bruker light-sheet, HCS Leica SP8, HPC and Nvidia DGX). Our lab provides a highly multidisciplinary research environment and unique expertise across imaging, genomics, deep learning and computer vision. Therefore, we are looking for a passionate PostDoc who is motivated to closely interact with our team trained in medicine, biology, bioinformatics and physics.

Job Description:

- primarily undertake and publish scientific research
- Interacting with the clinical management and partners from pathology and genomics at Charité and external
- Analyzing genome or transcriptome NGS and 3D imaging high-throughput data, also in combination
- Development and implementation of novel computational methods that aid genomics based diagnostics and prognosis

Requirements:

- Candidate with PhD in physics, bioinformatics, genomics, computer science, medicine or similar
- Knowledge of microscopy or programming (TensorFlow, Python, R, JavaScript or similar scripting) are preferred, but not a prerequisite
- Experience with next generation sequencing data processing and analysis are desired
- Ambitious, self-driven, aim to build a scientific career in multidisciplinary clinical data science

We offer:

- Varied activity in an interdisciplinary research environment
- Salary according to E13 TVöD VKA-K
- Flexible working time ensures better reconciliation of work and private life

We live diversity !

Female candidates are expressly invited to submit their application. Severely disabled applicants with equal qualification will be given particular consideration.

Applications should be submitted by email to **christian.conrad@charite.de** until **07.06.2021** indicating **reference number BIH-48.21**.

For further information of BIH look at www.bi-health.org.