

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.

We are inviting applications from outstanding postdoctoral researchers as part of the newly established Computational Medicine group at the Berlin Institute of Health at Charité University Medicine (<https://www.bi-health.org/en/research/research-groups/claudia-langenberg>).

Senior Statistical Geneticist full-time (39h/week)

The aim is to characterise the genetic architecture of diverse aspects of human metabolism using large-scale population-based and patient data and to translate these discoveries into strategies to improve health. The group is one of the world leaders in the genetic discovery of molecular traits, such as metabolites and pro-teins, which we use to identify shared genetic regulation with common, complex diseases with the aim to discover new drug targets, indications and disease mechanisms.

The BIH group is affiliated with the MRC Epidemiology at the University of Cambridge, UK, and is building links to the Wellcome Centre for Human Genomics and Big Data Institute as part of the Berlin University Alliance's international strategic partnership with the University of Oxford, UK. Close working with and visits to these institutions are encouraged as a part of this role. The posts are initially limited to three years, but extension is intended contingent on funding.

Applications received no later than the **6th of August 2021 (deadline)** will be considered. Interviews will be held on August 16th and 17th.

Your responsibilities:

- Development of computational workflows for processing and analysis of large-scale sequencing efforts from the UK Biobank
- Management of large phenotypic datasets for genetic analysis
- Development of prioritization strategies and statistical workflows for rare variant analysis
- Preparation of high impact scientific publications
- Integration of different types of 'omic' data for causal inference and prioritization of drug targets and disease mechanisms
- Training and supervision of Master and PhD students within the group in statistical genetics

Requirements:

- PhD in statistical genomics, genetic epidemiology, or a closely related discipline, with a proven track record to write and publish scientific articles
- Extensive, demonstrable experience in several of the following areas: 1) Generation and/or analysis of high-throughput genetic and genomic data, 2) Genome-scale association analyses in GWAS and sequence data, 3) High-level expertise in computational genetics
- Extensive, demonstrable experience with principal programming and scripting languages (e.g. R or Python)
- Aptitude for biological inference and clinical translation

- Desirable, useful skills and experience include all of the following: metabolomic and proteomic data and technologies, Bayesian statistics, including fine-mapping, Mendelian randomisation, and polygenic risk scores.
- Speaking and writing in English fluently

We offer:

- A collaborative research environment that encourages and supports scientific curiosity, innovation, and development of its team members
- Remuneration according to E13 TVöD VKA-K (49.300-71.700€/p.a.)
The grouping takes into consideration the qualifications and the personal circumstances of the candidate
- Family- friendly, flexible working hours

We live diversity!

BIH strongly encourages qualified women to apply. Severely disabled applicants and those with equal status will be given preferential consideration in cases of equal suitability.

Please submit your application by email to **claudia.langenberg@charite.de** by **06.08.2021**, quoting the **reference number BIH-61.21**.

You can find more information about us and BIH at

<https://omicscience.org/>

<https://www.bihealth.org/en/research/research-groups/claudia-langenberg>

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