

The German Diabetes Center (DDZ), Leibniz Institute for Diabetes Research at the Heinrich Heine University (HHU) Düsseldorf is an interdisciplinary research institute that together with CARDDIAB (Cardiovascular Research in Diabetes) studies the causes and consequences of the impaired interaction of the cardiovascular system and glucose metabolism in their early, advanced and late manifestations will be investigated in humans.

The research group "Computational Diabetology" develops computational methods for the analysis of multimodal data, mainly multiomics data (genome, transcriptome, epigenome, proteome, metabolome) from CARDDIAB and its associated cohort studies, and is looking for a highly motivated and talented early-career

## Doctoral Researcher (f/m/d)

for a full-time (100%) TV-L E13 compensated position in the field of bioinformatics.

### Your tasks:

- Devise, analyze, and implement graph algorithms for the analysis of large omics data
- Apply and refine machine learning methods
- Analyse complex multimodal data from multiomics and single-cell omics experiments

### Your profile:

- Completed relevant academic university degree (e.g. master) in computer science, data science, bioinformatics or mathematics
- Strong understanding of biological concepts
- Expertise in graph algorithm development, computational comparative genomics, machine learning, omics / single-cell data analysis
- An analytical aptitude for devising innovative scientific or technical solutions
- Proficient in programming languages such as Python, C/C++, Java
- International research experience / working experience abroad
- Excellent communication skills in English
- You are a team player and keen to collaborate with medical researchers, physicians and biologists to propel the project

### We offer:

- Support towards independent scientific work and scientific career development
- Association with competitive networks for training and mentoring including the German Center for Diabetes Research (dzd-ev.de)
- The position is awarded for 3 years with the possibility of extension.
- Family-friendly working conditions and professional equality. Since May 2011, the DDZ has been certified by the "career and family audit". The provision of section §7 (1) of the Part-Time and Fixed-Term Act is taken into account.
- Salary is regulated by the collective agreement for the civil service of the state in the version valid for the state of North Rhine-Westphalia.
- Severely handicapped persons will be preferred in case of equal qualification.
- Women are given preference in case of equal qualifications.

For further information on the project, please contact Jun.-Prof. Dr. Daniel Dörr ([daniel.doerr@ddz.de](mailto:daniel.doerr@ddz.de)). Please submit your complete application (motivation letter, CV, certificates/records) until **15.04.2024** with the reference code **D-CD-24-2** via e-mail to [personal@ddz.de](mailto:personal@ddz.de).

Data collection and further processing of your application at the DDZ will take place mainly by means of electronic data processing. The regulations pertaining to data protection laws will be adhered to. By sending us your application you consent to this procedure.