PhD candidate (m/f) in Bioinformatics / Biostatistics / Biomedical data analysis

Topic: Multi-omics data integration for studying the link between obesity, diabetes, and the development and progression of cardiovascular disease in large human cohort studies by using a systems-oriented approach

Employer: University Medical Center of the Johannes Gutenberg University Mainz, Mainz, Germany

Your tasks:
- Investigation of molecular processes and markers of diabetes development and cardiovascular sequelae in relation to obesity
- Multi-dimensional and pathway-integrating analysis of multifaceted data (proteomics, transcriptomics, genomics, phenotypic/clinical) from large biodatabases of samples from the population and diseased individuals
- Detection and comparison of disease subtypes for the development of personalized medicine in prevention, prognosis, and treatment
- Application, evaluation, and development of state-of-the-art bioinformatics methods

Your profile:
- Master degree in Computational Biology, Bioinformatics, Biostatistics, Systems Biology, Biomathematics, Epidemiology or a related area
- Strong interests in human biomedicine (cardiovascular diseases, diabetes, obesity) and multi-dimensional data analysis
- Programming experience in R, python, or similar programming languages
- Sound statistical knowledge and experience in handling bioinformatics databases and tools
- Good communication skills and fluency in English
- Structured and independent work attitude

We offer:
- An interesting research project at the forefront of computational biomedicine related to cardiometabolic diseases.
- A professional and cooperative work environment in a highly interdisciplinary research team
- A stimulating scientific environment with excellent facilities for professional and personal development
- Opportunities for child care (limited places available)
- Job ticket for public transport

For further information please contact Prof. Dr. Miguel Andrade (andrade@uni-mainz.de) or Prof. Dr. Philipp Wild (philipp.wild@unimedizin-mainz.de).

Did we catch your interest?
Please submit your application, including motivation letter, CV, recommendation letters, and copies of your diploma(s) and transcripts (high-school, bachelor, master) by e-mail to astrid.hochgesand@unimedizin-mainz.de