

Two Staff scientists for long-read sequencing and bioinformatics

The West German Genome Center (WGGC) and the sequencing core facility (GTL) of the Heinrich-Heine University of Düsseldorf is expanding in the field of long-read sequencing and is now seeking an Next Generation Sequencing (NGS) staff scientist and bioinformatics staff scientist to further develop our long-read analysis capabilities and efforts.

The aim is two-fold: (i) firstly, develop, support and apply production-level genomic analysis pipelines for established applications like *de novo* assembly, structural variant detection and metagenomic profiling; (ii) secondly, project management of ongoing scientific NGS collaborations and active participation in the development of novel analytical and scientific approaches based on NGS long-read technologies.

Both positions offer the opportunity to play a key role in the implementation of cutting-edge genomics as part of a small, interdisciplinary and highly collaborative team. Our projects span the tree of life, often concerning applications in human, microbial and plant genomics. We employ the whole range of modern long-read technologies (Pacific Biosciences, Oxford Nanopore, Bionano) to serve our own and our collaborators' needs. Long-read sequencing is a strategic priority of our organization.

Key responsibilities:

- Development and maintenance of pipelines for the analysis of genomic data.
- Analysis of genomic data.
- Communication with internal and external stakeholders, for example concerning questions of technology, study design or data analysis.
- Participation in research projects.
- Participation in the development of innovative analytical or scientific approaches.

Your profile:

- Proven experience in genomics or bioinformatics.
- Proven experience of analyzing genome-scale data sets in a scientific context.
- The ability to summarize and visualize complex datasets to look for patterns or potential biases through detailed analysis.
- The ability to discuss and explain complex ideas to both specialists and non-specialists.
- Strong and proven programming skills in scripting languages like Python or Perl (bioinformatics staff position)
- You are excited by the scientific and medical potential of genomics and like taking the lead on complex and challenging tasks.

We offer:

- The opportunity to work on cutting-edge genomics projects in clinical and non-clinical settings.
- A results-focused, collaborative and flexible culture.
- A competitive academic salary and benefits.

This is initially a full-time fixed-term appointment for 2 years.

For questions and informal enquiries please contact Prof. Dr. Karl Köhrer (Genomics & Transcriptomics Laboratory, Karl.Koehrer@uni-duesseldorf.de) or Prof. Dr. Dagmar Wiczorek (Institute of Human Genetics, Dagmar.Wiczorek@med.uni-duesseldorf.de).

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