

Staff scientist for long-read bioinformatics

The sequencing core facility of the Heinrich-Heine University of Düsseldorf is expanding in the field of long-read sequencing and is now seeking a bioinformatics staff scientist to lead and develop our long-read analysis capabilities and efforts.

The aim of the role 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, participate in ongoing scientific projects and contribute to the development of novel analytical and scientific approaches based on long reads, for example in the field of oncology.

This position offers 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) 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:

- Strong and proven programming skills in scripting languages like Python or Perl.
- 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.
- 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 3 years.

For questions and informal enquiries please contact Dr. Karl Köhrer (Genomics & Transcriptomics Laboratory, Karl.Koehrer@uni-duesseldorf.de) or Dr. Alexander Diltthey (Institute of Medical Microbiology and Hospital Hygiene, Alexander.Diltthey@med.uni-duesseldorf.de).

