

At the West German Genome Center (WGGC) production site Düsseldorf based at the Genomics and Transcriptomics Laboratory (GTL) on the campus of Heinrich Heine University Düsseldorf a position as a

Postdoctoral Position (f/m/d) as NGS Sequencing Expert

The employment is limited to the 31.12.2023 until the end of the project (Wissenschaftszeitvertragsgesetz – WissZeitVG § 2 Absatz 2).

The WGGC is one of four national Next Generation Sequencing (NGS) Competence Centers funded by the DFG, the national research council. It takes a leading role in harmonizing standards to serve the scientific community by providing excellent NGS services. The WGGC is a collaborative network of universities and institutes located in the west of Germany. Our expertise covers most aspects of NGS research, encompassing strong capabilities in human and medical genetics as well as animal, plant and microbial genomics.

At the production site Düsseldorf, we carry out NGS long read analyses using cutting-edge technologies of the Pacific Biosciences Sequel II system and the Oxford Nanopore platforms GridION Mk1 and PromethION 24. Moreover, we offer optical mapping using the Bionano Saphyr system, single cell sequencing using the platforms of 10X Genomics and BD, and Illumina short read sequencing on various machines. Long read sequencing is a comparatively new technology, which is rapidly evolving.

What are your tasks?

- Manage NGS long read sequencing projects
- Support cooperation partners in study design and data analysis
- Collaborate with other production sites on method development
- Establish new sequencing protocols and techniques
- Quality control of NGS data obtained
- Basic bioinformatic data analysis of long read NGS data
- Improve methods for sample preparation and clean up
- Establish new methods for the isolation of high molecular weight DNA and RNA samples

What do we expect?

- University degree (M.Sc./M.A./Diploma) in the field of molecular biology or a comparable discipline with doctoral degree
- Experience in preparing samples for Next Generation Sequencing and analysis of the data
- Experience in project management
- Excellent oral and written communication skills in English
- High ability to work in a team

What do we offer?

- An interdisciplinary and collaborative working environment within the academic NGS community
- A friendly team and modern lab and office space
- Opportunity to join the Heine Research Academies (HeRA) for further career training and networking, participation in mentoring programs, and assistance with research funding and travel funds
- Family-friendly working environment

The pay scale grouping will be, depending on the personal qualification of the applicant, up to pay grade 13 TV-L.

In principle, employment is also possible on a part-time basis, unless there are compelling official reasons to the contrary in individual cases

Heinrich Heine University Düsseldorf aims at increasing the percentage of employed women. Applications from women will therefore be given preference in cases of equal aptitude, ability and professional achievements unless there are exceptional reasons for choosing another applicant. Applications from suitably qualified severely disabled persons or disabled persons regarded as being of equal status according to Book IX of the German Social Code (SGB – Soziales Gesetzbuch) are encouraged.

Have we awakened your interest? Please submit your application via Email to Universitätsklinikum Düsseldorf HR department to

Universitätsklinikum Düsseldorf
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