



VIEL MEHR ALS NUR EIN GUTER JOB.

The University Hospital Basel is one of the leading hospitals in Switzerland. Due to our intensive collaboration with the University of Basel and the proximity to several major international life science companies, we are optimally positioned within an innovative knowledge transfer network that operates at the highest level of research, teaching and patient care. With approximately 7'100 employees from 86 countries, we are fully committed to our work and meet the highest professional standards. Join our team – Because our jobs offer more than elsewhere.

Starting immediately or by agreement the Division of Clinical Bacteriology and Mycology is looking for a

Microbial Genomics Data Scientist 100%

Your responsibilities:

- Maintenance, modernisation and technical support of the next generation sequencing facility (Illumina MiSeq, NextSeq500, Oxford Nanopore Technologies)
- Development of pipelines for data analysis and clinical reporting using open source and proprietary software (Ridom SeqSphere+, CLC Genomics Workbench)
- Integration of data into the clinical data warehouse and other databases
- Research and development focusing on novel of novel diagnostic tests using NGS (metagenomics, etc)
- Bioinformatic analysis and interpretation of microbial whole genome sequencing data: typing and antibiotic resistance determinant reporting
- Support and training of laboratory technicians operating within the NGS facility
- Supporting the quality management system, in particular for the NGS application
- Supervision of Masters and PhD students within specific projects

Your qualifications:

- PhD and postdoc experience
- High technical expertise with Illumina MiSeq and NextSeq500 and further sequencing technologies
- Programming skills in: python, bash, R
- Experience with varied bioinformatics software tools
- Demonstrated ability to perform bioinformatic analyses, in particular in the area of phylogenetic analysis and prediction of antibiotic resistance from whole genome sequencing data
- Deep understanding of microbial evolution and mechanisms
- German and English speaking and writing
- Enjoys working as part of multidisciplinary team of bioinformaticians, clinical microbiologists, infectious disease clinicians and technicians
- Ability to work independently and organise own workload

What we offer:

- Exciting and challenging projects in a dynamic environment
- Well-funded sequencing area
- Opportunity to learn and develop new methods and tools for analysis of important clinical samples, directly within a hospital environment
- Combination of service, research and development in a University setting
- Cooperative team atmosphere
- A family-friendly personnel policy
- A campus in a central location with good transport links

For further information please contact Dr. Adrian Egli, Head of Clinical Bacteriology and Mycology, +41 61 556 57 49, adrian.egli@usb.ch.

Mrs Ruth Abels, Human Resources, is looking forward to receiving your online application (reference number 12802).