

## **Bioinformatics Staff: Institute for Infectious Diseases, Bern, Switzerland (50% Unix system admin, 50% R&D)**

**Description:** The Institute for Infectious Diseases (IFIK), University of Bern is seeking a highly qualified and experienced staff bioinformatician to support the existing Unix infrastructure and to further develop tailored solutions for Next Generation Sequencing applications for both research and microbiological diagnostics at IFIK. Over the last year, IFIK has developed in-house nanopore sequencing (MinION, GridION), and computational resources (own high performance computing cluster) to address the increasing needs to perform genomic analyses of microbial pathogens. The new collaborator will be embedded in the Bioinformatics and Biostatistics group at IFIK and will contribute to research and development of NGS approaches for microbial diagnostics.

**We seek:** a junior researcher with Unix expertise for: 1) co-administration of the UNIX (LINUX) networks, and 2) contribution to the further development of Next Generation Sequencing analysis workflows (second and third-generation NGS technologies) for application in clinical diagnostics and research. This position combines both bioinformatic “research” and “services”, and would be suitable for a highly motivated, reliable and creative team player.

**Essential qualifications include:**

- postgraduate degree in bioinformatics or related field
- 1-2 years relevant work experience with Unix (Linux) systems, including installation and troubleshooting of operating systems, disk management, backup and recovery, network resource management, user support, and application installation and troubleshooting.
- relevant work experience in NGS data analysis: Whole genome sequencing, (meta)genomics/transcriptomics
- excellent communication, teamwork and organizational skills
- advanced programming skills (e.g., Python/Perl, R, shell scripting, C++, Java, goLang)
- spoken and written fluency in English and German

**The following additional qualifications will be advantageous:**

- background in microbial ecology, diversity analysis, phylogenetics, phylogenomics, or related fields
- experience in user interface development, and in reproducible research implementation

**We offer:** The IFIK provides an international, collaborative atmosphere with regular seminars in English, and a multidisciplinary approach to microbiology and virology. Opportunities to be trained specifically on emerging technologies in bioinformatics will be offered as needed.

The salary will be based on the Swiss National Science Foundation scale ([www.snf.ch](http://www.snf.ch)).

**Percentage of salary:** 90-100%

**Starting date:** April 2018

**Duration:** 1 year, with renewal subject to satisfactory performance

**Applications until 28 February 2018 must include:**

1. Curriculum Vitae, including a description of Unix experience, scripting language proficiency (indicate public repository address, e.g. github, if available and examples of completed bioinformatic projects), and publication list
2. Accompanying letter, indicating the reasons for applying to this position
3. Copy of Master/PhD degree Certificates
4. Contact information of at least two referees (no need for reference letter at this stage)

Only complete applications will be considered.

Please send your application documents *electronically* to Dr. Alban Ramette ([alban.ramette@ifik.unibe.ch](mailto:alban.ramette@ifik.unibe.ch)). Applications will be considered on an on-going basis.