Job posting

Type of position
- scientific
- administrative

Target group
- graduates
- post docs
- other

Title
Doctoral Researcher (f/m/d) - Virus Bioinformatics

Institution
The institute for Experimental Virology, led by Prof. Dr. Thomas Pietschmann, at TWINCORE - Centre for Experimental and Clinical Infection Research in Hannover, Germany is offering a position as Doctoral Researcher (f/m/d) - Virus Bioinformatics to support our international and interdisciplinary team in the research group for computational virology (Prof. Dr. Chris Lauber) at the Institute for Experimental Virology at TWINCORE (Director Prof. Thomas Pietschmann).

At TWINCORE medical personnel and basic research scientists from various disciplines conduct infection research side by side. Our focus is upon translational research at the interface between basic research and clinical development.

We are a highly complementary research team located at the TWINCORE Centre for Experimental and Clinical Infection Research in Hannover and the German Cancer Research Center in Heidelberg. Our work is dedicated to the large-scale discovery and evolutionary analysis of novel viruses by high-throughput screening of Next-Generation sequencing data. To this end, we established and applied sensitive computational pipelines that allowed us to retrieve thousands of genomes of so far unknown eukaryotic viruses. The current project aims at assessing the spill over risk of these infectious agents from non-human host reservoirs into humankind and thus contributes to fostering our preparedness against future pandemics.

Position
Project description: This project is embedded in the interdisciplinary, multi-center Corona Virus Pathogenesis (CoViPa) consortium funded by the Helmholtz Association. The open PhD position includes participation in a joint Graduate program to support highly talented and promising doctoral researchers at the early stages of their career.

Responsibilities
- Analysis of RNA and DNA high throughput sequencing data
- Comparative sequence analysis
- Phylogenetic and other evolutionary analyses
- Creation of bioinformatics workflows, including version management
Requirements

Qualifications:
- Master’s degree in (bio)informatics or biotechnology with a focus on computational biology
- Strong hands-on experience in programming with at least one scripting language, like Perl, Python or R, under Linux.
- Knowledge in and understanding of state-of-the-art methods of computational biology, e.g. NGS data processing, sequence alignment, phylogenetic tree reconstructions, protein functional annotation, motif search and structural predictions.
- The candidate works accurately, is able to conduct independent research, but also enjoys working in an international and interdisciplinary environment.
- Willingness to advise students in the lab.
- Fluency in English language (written and spoken)

Advantageous for this position:
- Experience with high-performance computing is a plus.
- Experience with tools for workflow management (e.g. Snakemake, Nextflow) and version control (e.g. git) is a plus.
- Proficiency in German would be a plus.

We offer you:
- challenging and varied tasks in a dynamic and international research environment
- most modern workplace equipment
- extensive further training opportunities
- flexible working hours and workplace design
- support for a better work life balance

Disabled persons are given preference in the case of equal professional qualification. The HZI aims for professional equality between women and men. The position is suitable for part-time work.

Starting date: as soon as possible- Initial contract for 3 years
Salary: alike TVöD E13 (65%)
Probation period: 6 months
Published on: 16th July 2021
Closing date: 06th August 2021.

Application procedure (deadline etc.)
Applicants are required to complete the online application form here: https://hzi.opencampus.net/
(Please select Job No. 101/2021).
Contact

For more details regarding the position, please contact:
Prof. Dr. Chris Lauber via email: chris.lauber@twincore.de or by phone: +49 511 220027 238, Susanne Köster via email: susanne.koester@twincore.de or by phone: +49 511 220027 131

Further information about the institute and the research group of Prof. Dr. Chris Lauber can be found on our website: https://www.twincore.de/en/research-groups/experimental-virology/rg-computational-virology/.