



## Postdoctoral fellow in Bioinformatics (m/w/d)

wanted for **the next possible date** at the Heidelberg University Hospital, **Department of Infectious Diseases, Molecular Virology** .

The Munschauer Lab at the Centre for Integrative Infectious Disease Research (CIID) is seeking a highly motivated postdoctoral scientist to carry out a collaborative research project at the intersection of computational biology and systems virology. Our laboratory takes a systems biology-inspired approach and combines cutting-edge technologies from the area of mass spectrometry and genomics, together with bioinformatics to understand the molecular interactions between RNA viruses and their hosts. The project is centered on the integration and analysis of multiomics datasets utilizing advanced machine learning approaches and biological network analysis. The successful candidate will join an interdisciplinary and international team of computational and experimental scientists, gaining unique opportunities to develop novel computational tools and pipelines for the analysis and integration of genomic, transcriptomic and proteomic data. This role provides ample opportunities for professional growth within an innovative research environment committed to scientific excellence and collaboration.

**Job-ID:** V000014783

**Field of application:** Molekulare Virologie

**Location:** Heidelberg

**Job Category:** Science and teaching

**Working hours:** full-time (100%)

**Published:** 23.09.2025

**Limitation:** Temporary (36 Monate/ extension wanted)

**Contract:** TV-L

### Your tasks

- Implement advanced machine learning and data integration approaches
- Analyze and interpret single-cell and multiomics high-throughput sequencing data
- Collaborate with leading wet lab scientists and bioinformaticians at the national and international level

### Your profile

- PhD or equivalent qualification in computational biology, bioinformatics, or a related field in the computational or natural sciences
- Sound knowledge in machine learning algorithms, statistical methodologies, and biological network analysis

- Experience with the analysis and integration of transcriptomic and multiomics data (bulk and single-cell)
- Proficiency in relevant programming languages (e.g. Python, R, etc.), HPC environments (e.g. Slurm), and workflow management systems (e.g. Snakemake)
- To work accurately and being able to conduct independent research, but also enjoying to work in an international and interdisciplinary environment
- Strong written and spoken English language communication skills

## We offer

This opportunity offers a dynamic environment for professional and personal growth, with access to state-of-the-art laboratories and infrastructure, as well as flexible working hours. It also provides networking opportunities and visibility in high-quality national networks. Additionally, there are many university-offered benefits, including a job-ticket, active health promotion, and childcare options (crèche and kindergarten). The environment is creative and vibrant, situated in an international, science-oriented city that is considered one of the most beautiful in Germany. The salary is internationally competitive, according to the Baden-Württemberg civil service remuneration system (TV-L E13).

## Contact & Application

For further information please contact Mathias Munschauer via **e-mail**.

### Interested?

Applications will be accepted until 31.10.2025 online.

Molekulare Virologie  
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Note: The UKHD is subject to the provisions of the Infektionsschutzgesetz. Therefore, a valid measles immunity certificate is required for all persons employed at the UKHD.

The UKHD embraces diversity and values diversity.

Regardless of age, gender, sexual identity, disability, origin or religion, we offer everyone the same opportunities. If one gender is underrepresented in a particular area, we place particular emphasis on counteracting this imbalance. If they have the same aptitude, qualifications and professional performance, we give priority to people with severe disabilities when considering them for vacancies.

Classification is based on qualifications and personal requirements. The salary (gross) is for a full-time position and does not include the annual bonus or other allowances.

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