Medizinische Hochschule Hannover

Jeden Tag für das Leben.

TWINCORE, Center for Experimental and Clinical Infection Research - Lab of Antiviral Antibody-Omics

# PhD Student (f/m/d) in Translational Infection Research

01.02.2026

The Hannover Medical School (MHH), with about 10.000 employees the biggest company of Lower Saxony, is a university institution for research and teaching in the human and dental medicine and a university hospital of supra-maximum medical care. Research, teaching, medical care and administration work hand in hand in the integration model at the MHH-campus.

At TWINCORE, Centre for Experimental and Clinical Infection Research, clinician scientists and basic researchers from various disciplines conduct infection research side by side. Our focus is on translational research at the interface between basic research and clinical development. Beyond neutralization, antibodies can elicit an armory of additional Fc dependent innate effector functions. Emerging data points to the importance of these effector functions for antibody mediated control of viral infections like HIV, SARS-CoV-2 or RSV. One major goal of our group "Anti-Viral Antibody-omics" at the Institute for Experimental Infection Research is to characterize protective antibody responses in humans. Furthermore, we aim to develop novel, improved antibody based anti-viral therapies.

**Your Tasks**

- Conduct of experiments under S1 and S2 conditions including, but not limited to, processing of human blood samples, flow cytometry, DNA and RNA sequencing, single-cell RNA sequencing, recombinant antibody expression, characterization of antibody responses, animal experiments
- Data processing (bioinformatics and statistical analysis, presentation, etc.)

**Your Profile**

- University degree (Master of Science or equivalent) in natural sciences (life science, immunology, veterinary medicine, etc.)
- Experience in cell culture, flow cytometry, plasmid cloning, protein expression and purification, and / or working with small lab animals (mice)
- Social competence and excellent team skills
- Motivation and flexibility, a high degree of dedication and productivity
- Excellent communication skills in Englisch
- Advantageous for this position
  - Experience in antibody expression and purification
  - Work with bacteriophages
  - Knowledge in computational biology and R, Matlab and / or python
  - FELASA approved training or similar

**We offer**

- A three-year fixed-term position wit 0.65 FTE
- Depending on personal qualifications, remuneration up to pay group E13 according to TV-L is possible.
- An innovative and dynamic international research environment equipped with exceptional, state-of-the-art research infrastructure.
- Flexible working hours and workplace design (including work laptop and office space)
- Project within the Cluster of Excellence RESIST II and possibility to integrate in the structured PhD graduate programs of the MHH Biomedical Research School (HBRS)
- Personal and professional development opportunities - supported by our diverse internal and external training and continuing education programs
- A wide range of different employee benefits and offers (including supplementary company insurance, pension plans oder or leasing a company bike)
- An excellent range of sports, counseling and preventive care programs


**You have any questions beforehand?**
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**Apply now**
ID 3606
Deadline 01.01.2026

The MHH is certified as family-friendly university and stands for the promotion of women in the professional life. Applications of women are particularly welcome. Severely disabled applicants with equal qualifications are given preferential consideration.