LMU KLINIKUM

Postdoctoral Researcher in AI-integrated Neuroimmunology (m/f/d)

Institut für Klinische Neuroimmunologie

The Hospital of the University of Munich, Germany, is one of the largest and most competitive university hospitals in Germany and Europe. 48 specialized hospitals, departments and institutions harbouring excellent research and education provide patient care at the highest medical level with around 11.000 employees.

WORKPLACE	Martinsried	DATE OF ENTRY	01.01.2026
WORKING HOURS	Full time	APPLICATION DEADLINE	30.06.2025
INSTITUTION	Institut für Klinische Neuroimmunologie	REFERENCE NUMBER	2025-K-0154
DEPARTMENT	Institute of Clinical Neuroimmunology		

The group is located within the [Institute of Clinical Neuroimmunology](#) at the [Biomedical Center Munich](#). The professorship of Systems Neuroimmunology is part of the [Cluster of Excellence SyNergy](#).

Scope of duties

The newly established Systems Neuroimmunology Laboratory at LMU Munich is seeking a motivated and creative postdoctoral researcher passionate about combining neuroimmunology and advanced computational approaches, including artificial intelligence (AI), to unravel the mechanisms driving neuroimmunologic diseases.

Your responsibilities:

- Plan and perform innovative large-scale experiments bridging human patient samples and cutting-edge AI-driven analyses
- Validate computational findings through functional laboratory experiments
- Develop and optimize protocols involving omics methods, immune cell assays, flow cytometry, and gene editing techniques
- Collaborate closely with biologists, clinicians, and data scientists within a highly interdisciplinary environment
- Contribute to publications and presentations at international conferences

Our requirements

- Completed PhD in Biology, Biotechnology, Bioinformatics, Immunology, or related field
- Strong interest in computational science and AI (prior formal training not required)
- Experience with immunological methods (flow cytometry, qPCR, functional assays, CRISPR/Cas9 gene editing) is beneficial
- Familiarity with omics and sequencing technologies (e.g., scRNA-seq, spatial transcriptomics, TCR-/BCR-sequencing, ChIP-seq) is advantageous
- Excellent teamwork, communication skills, and creativity
- International candidates are strongly encouraged to apply

Our offer

- Exciting position within a creative, and highly interdisciplinary research group
- Open, collaborative culture with ample opportunity for innovative ideas
- Strong commitment to career development and training
- Excellent scientific environment with state-of-the-art technologies and facilities
- Remuneration is based on the Collective Agreement for the Public Sector of the Länder (TV-L) including all allowances customary in the public sector

Offers and services of the employer

Further education and training	Job ticket
Company pension scheme	Discounts
Childcare services	Staff accommodation (if available)
Mobile work (if suitable)	

Frau Bambur, Elma

+49 89 2180 71660

Application format

Please use the Online-Form for your application

http://www.lmu-klinikum.de/adee0f4866dd7883

Disabled persons will be preferentially considered in case of equal qualification. Presentation costs cannot be refunded.

Please note that we cannot reimburse travel expenses incurred through interviews.

We ask you for your understanding that postal applications will not be returned, but will be destroyed in accordance with data protection regulations. The data usage information also applies to postal applications