

# PhD Position – Vascular Biology – Microvascular Brain Injury (m/f/d)

Institut für Schlaganfall- und Demenzforschung

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	Campus Großhadern	Date of entry	Next Possible Date
Working hours	Part time	Application deadline	01.05.2025
Institution	Institut für Schlaganfall- und Demenzforschung	Reference Number	2025-K-0048
Department	Institut für Schlaganfall- und Demenzforschung (ISD)		

The Institute for Stroke and Dementia Research (ISD) offers a: PhD position (m/f/d) Vascular Biology - Microvascular Brain Injury The ISD is a biomedical research institute primarily financed by foundation funds that bridges the traditional gaps between basic science and academic medicine ([www.isd-muc.de](http://www.isd-muc.de)).

## Scope of duties

- The project, which will be carried out in the group of Martin Dichgans, aims to examine the cellular and molecular mechanisms of microvascular brain injury in novel mouse models of cerebral small vessel disease.
- These models are derived from our gene discovery efforts and show great promise as indicated by a first phenotypic screen.
- The project involves single cell and bulk RNA sequencing, spatial transcriptomics, proteomics, and cutting-edge imaging technology (confocal, light-sheet, 2-photon, and electron microscopy) as well as cell culture-related work.
- All technologies are available in house (see websites of ISD and SyNergy).

## Our requirements

- The ideal candidate should hold an MSc degree in biological sciences or related fields and have a solid foundation in basic methods of molecular and cellular biology.
- Prior experience in vascular research, experimental work in mice, scRNAseq, proteomics, and cutting-edge imaging are considered a plus.
- The candidate should be creative, self-driven, and a team player - but able to work independently.
- Essential qualities include fluency in English, rigor in pursuing scientific work, and an interest in disease-oriented research.

## Our offer

- The position will be in a highly international, dynamic and “open-door” atmosphere, with access to state-of-the-art laboratory facilities and technology hubs as implemented by the Munich cluster for Systems Neurology (SyNergy, DFG-funded German Excellence Initiative).
- You will work in a diverse team of experienced staff, PhD students, Postdocs and technicians.
- There is the possibility to apply for enrollment in the Graduate School for Systemic Neuroscience (GSN), to which our Institute is affiliated.
- The Ludwig-Maximilians-University is an equal opportunity employer.
- Individuals of all nationalities, genders, ages, and those with disabilities are encouraged to apply.
- We give priority to applicants with a disability and essentially equal qualifications.
- Salary will be according to TV-L and the position funded for up to 2 years with an option for extension.

## Offers and services of the employer

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

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## Application format

Please use the Online-Form for your application

<http://www.lmu-klinikum.de/ef818c4932e146bc>

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