

Postdoctoral researcher in Neuroimaging and AI (ERC project CONNECT) (m/f/d)

Klinik und Poliklinik für Radiologie

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, Campus Innenstadt	DATE OF ENTRY	15.07.2026
WORKING HOURS	Full time	APPLICATION DEADLINE	10.05.2026
INSTITUTION	Klinik und Poliklinik für Radiologie	REFERENCE NUMBER	2026-K-0152
DEPARTMENT	Functional Neuroimaging Group		

Scope of duties

The Functional Neuroimaging research group is looking for a highly motivated PostDoc to join an ERC-funded project, combining neuroimaging and machine learning to advance our understanding of brain connectivity in neurological disorders with a focus on neuro-oncology and neurodegeneration. In your postdoctoral project you will:

- Lead the development of scalable pipelines for preprocessing and analysis of large-scale neuroimaging datasets (structural and resting-state fMRI).
- Design, implement, and evaluate advanced AI models for functional connectivity-based anomaly detection (e.g., graph-based models, generative approaches).
- Integrate multimodal data (imaging, demographic, technical parameters) into robust machine learning frameworks.
- Guide methodological development, benchmarking, and validation of models using clinical outcome measures.
- Supervise PhD and MSc students and contribute to project coordination within an interdisciplinary team.
- Publish in high-impact journals and present findings at international conferences.


Our requirements

- PhD in computer science, (biomedical) engineering, neuroscience, physics, or a related field.
- Strong expertise in machine learning/deep learning and scientific programming (Python).
- Experience working in Linux environments and high-performance computing (HPC) systems
- Experience with neuroimaging data and tools (e.g., fMRI, BIDS, FSL, FreeSurfer) is highly desirable.
- Experience with large-scale data processing and high-performance computing environments is advantageous.
- Experience working with functional MRI (fMRI) analysis is a plus.
- Strong analytical skills and ability to lead independent research projects.
- Excellent written and spoken English.
- Excellent publication track record.


Our offer

- A dynamic and interdisciplinary research environment at LMU Klinikum, one of Europe's leading medical institutions.
- An established and structured research group with a strong publication track record, striving for high-impact publications.
- A collaborative and supportive team culture, including regular group meetings, structured supervision, and one-on-one mentoring.
- Strong research infrastructure, including dedicated support in biostatistics, clinical data science, AI algorithm development, and project management.
- Opportunities for career development, including mentorship, grant writing support, and international networking.
- Flexible and family-friendly working conditions, including options for remote work where appropriate.
- The position is limited to three years.
- 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

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

Mrs. Dr.rer.nat. Ruat, Julia

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Application format

Please use the Online-Form for your application

<http://www.lmu-klinikum.de/66d4c889585d3840>

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