



The Multimodal Neuroimaging Group of Prof. Dr. Thilo van Eimeren at the University Hospital Cologne cordially invites applications for

## 1 PostDoc and 1 PhD position (f/m/d) in the field of Neuroimaging in Movement Disorders

funded for 3 years (salary according to TV-L13: PostDoc 100%, PhD 65%)

starting as early as possible

Our group (visit us on <https://mmni.de/>) currently looks for two highly motivated and qualified scientists (1 PostDoc and 1 PhD position) with a background in neuroscience or related fields. The candidates will mainly work on a project focusing on the impact of striatal dopamine loss on vigor, planning, and motivation of movements as well as the role of motor reserve in patients with prodromal and clinical Parkinson's disease. In this project, we will apply a unique combination of behavioral and computational phenotyping and state-of-the-art molecular, functional, and structural neuroimaging technologies (e.g. 7T MRI, dopamine transporter imaging). The successful candidates will be involved in the preparation and conduct of the study and the analysis and publication of newly acquired and already existing datasets. The positions provide the excellent opportunity to work in an interdisciplinary environment as part of the recently awarded Collaborative Research Center "SFB 1451: Key mechanisms of motor control in health and disease" with an integrated Research Training Group.

The successful candidates will join a dynamic and open-minded lab with an excellent support structure (including a research coordinator and a data scientist). The lab, with long-lasting expertise on multimodal imaging in neurodegenerative diseases, is embedded in an excellent research environment with a close collaboration between the University Hospital Cologne, the Research Center Juelich, and the German Center for Neurodegenerative Diseases (DZNE). As a team, we are highly dedicated to supervision, teaching, and personal support and offer a high degree of flexibility including remote work.

Suitably qualified women will be given preferential consideration unless other applicants demonstrate superior qualification. We also welcome applications from disabled candidates, who will also be given preferential consideration over other applicants with comparable qualification.

### Requirements for PostDoc position:

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- Doctorate in neuroscience, medicine, psychology, biology or related field
- Expertise in the analysis of neuroimaging data (e.g. MRI, SPECT, PET, etc.) and related software packages (e.g. SPM, FSL, etc.)
- A profound background in at least one of the following fields is expected: Parkinson's disease, neuroimaging in humans
- Strong English-language writing & communication skills
- Experience in the supervision of (under)graduate students

### Requirements for PhD position:

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- Master's degree in neuroscience, medicine, psychology, biology or related field
- Proficiency in English
- Experience with programming languages and neuroimaging software packages is desired

For both positions, proficiency in German is preferable, but not mandatory. We reserve the right not to fill the advertised positions.

### Required documents for application:

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Please submit your letter of motivation, CV, copies of transcripts, contact details of two potential referees, a recent list of publications (mandatory for PostDocs only) as one single PDF document via email to Dr. Merle Hönig ([merle.hoenig@uk-koeln.de](mailto:merle.hoenig@uk-koeln.de)). **Application deadline: 17.1.2021**