



We are looking to support our rapidly growing team as soon as possible:

Post Doc (f/m/x)

Neurology - Research group for Movement Disorders and Deep Brain Stimulation



TV-L: 38,5 h/week (100%)



limited for 3 years according
to WissZeitVG (Third-party
funded project)



Your salary will be based on
TV-L

Your tasks

- Conduct electroencephalography (EEG) measurements in patients with Parkinson's disease and DBS during a speech perception task
- Simultaneous recording of local field potentials (LFPs) via implanted DBS electrodes (postoperatively using DBS systems with sensing capability)
- Determination of electrode positions using LEAD-DBS (established in our research group)
- Data analysis in collaboration with the French partner institution
- Presentation of results at scientific conferences
- Writing and submission of scientific publications

Potential acquisition of third-party funding for follow-up projects

Your profile

We are looking for a highly motivated Postdoctoral researcher with a strong scientific interest, ideally from the fields of neuroscience, engineering, linguistics, psychology, physics, biology, or medicine. Experience with Deep Brain Stimulation and electrophysiological signal analysis (e.g. EEG/LFP analysis) is highly desirable.

The candidate should be a strong team player, able to integrate both into the local research group and the international collaboration with our French

Your future with us

We are one of the leading university hospitals in Germany and network research, teaching and health care at the highest level. That's why many things are a lot bigger for us: the spectrum of exciting development opportunities. The limitless openness with which specialists from all over the world work together here. Or our commitment as an employer to support all employees as best we can in reconciling their job with their goals and life situations.

This is the University Hospital of Cologne: Everything but ordinary.

Your future in detail

We are one of the leading University Hospitals in Germany, combining research, teaching, and patient care at the highest level.

The **Department of Neurology** is one of the largest neurological clinics in the country. In addition to patient care, the research of neurological disorders is a top priority. The research environment in Cologne has continuously expanded in recent years. The research focus on Neuromodulation is dedicated by the Medical Faculty to investigating and developing innovative preventive and therapeutic approaches for neurological and psychiatric disorders.

The research group for Movement Disorders and Deep Brain Stimulation (DBS) (Prof. Michael Barbe) focuses

partners. A high level of commitment and flexibility is expected. Joint interdisciplinary meetings with the French team are planned, and an extended research stay at the collaborating center in France is possible. French language skills are advantageous but not mandatory.

The experimental setup for the project is already established in the Department of Neurology, and a promising pilot experiment has been conducted as part of the grant application. Ethical approval is in place. The postdoctoral researcher should have substantial experience in writing scientific publications and, ideally, in securing third-party funding. A long-term academic career (e.g. habilitation, group leadership, professorship) is encouraged.

on studying the therapeutic effects of DBS. A particular emphasis is placed on speech motor control in patients with Parkinson's disease. The group collaborates locally with the Institute of Linguistic/Phonetics (Prof. Doris Mücke) and internationally with the Laboratoire Parole et Langage (LPL) in Aix-en-Provence (Prof. Serge Pinto). Together with our French colleagues, we have successfully

acquired third-party funding within a DFG-ANR project. Over the course of three years, this interdisciplinary project will investigate the role of the basal ganglia in speech perception. The planned experiments will take place as part of the collaboration both in Germany and in France.

Our offer

- **Everything but ordinary:** You can expect a secure job in a challenging, innovative environment – including company pension schemes and regular working hours without business trips.
- **Work-life balance:** Whether full-time or part-time, with or without children – with numerous support options, we will find the right path together.
- **Team spirit in R(h)ine culture:** You will be warmly welcomed by an interdisciplinary team that values mutual respect and helpfulness.
- **Strong perspectives:** We offer extensive training opportunities – so you can continuously grow and set new goals.

People with disabilities are welcome to apply and will be treated preferentially in the event of equal suitability and qualification. The position is suitable for staffing with part-time employees.

Contact

Univ.-Prof. Dr. Michael Barbe

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Application deadline: 08.03.2026

Job-ID: vk6xumlc

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Geschäftsbereich Personal
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[Uniklinik Köln Karriere](#)

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We look forward to receiving your application and getting to know you!