



We are one of the youngest universities in Germany and think in terms of opportunities rather than limitations. In the heart of the Ruhr metropolis, we develop ideas with a future. We are strong in research and teaching, live diversity, promote potential and are committed to upholding educational equality.

The **University of Duisburg-Essen,**
Erwin L. Hahn Institute for Magnetic Resonance Imaging (ELH)
offers a full-time position as

MR Physicist Postdoc (f/m/d): Laminar fMRI of Hippocampus

(E 13 TV-L)

for a joint research project of the groups of Prof. Dr. Nikolai Axmacher (Ruhr-University Bochum) and Prof. Dr. David Norris (ELH) with each group having a post-doc funded. The research project "[Laminar ultrahigh-field imaging in the human hippocampus](#)" is funded by the Mercator Research Center Ruhr.

Your responsibilities:

- Development of acquisition protocols for high resolution fMRI of the hippocampus based on changes in BOLD contrast or in CBV.
- Analysis of the data obtained in particular identifying activation within sub-regions of the hippocampus and functionally connected regions and determining the activation as a function of cortical depth.
- Interpretation of the acquired data in terms of intra- and inter-regional connectivity patterns taking into account both the underlying neuroanatomy and the vasculature.

Your profile:

- PhD in the field of MRI
- Visible scientific track record
- It would be advantageous to have prior experience in: BOLD biophysics; high spatial resolution fMRI; IDEA sequence programming, work at 7 T.
- Fluent in spoken English and capable of writing scientific English skills. Spoken German would be advantageous but is not necessary.
- Good team player who can work well in an interdisciplinary environment. Capable of working independently in a structured and flexible manner. Strong organizational skills, and the ability to communicate within the team and to present to the outside world.

We offer you:

- A diverse, multifaceted field of activity
- Friendly working atmosphere in a professional team on the historic grounds of the industrial monument and UNESCO World Heritage Zollverein in the northeastern city of Essen
- Further education and training opportunities
- Sports and health offers (university sports)
- Company ticket
- 30 days annual leave with a 5-day week

<u>Begin of employment:</u>	01.01.2022
<u>Contract duration:</u>	2 years (project duration)
<u>Working time:</u>	100 % of a full-time position
<u>Application deadline:</u>	25.10.2021

The University Duisburg-Essen aims at promoting the diversity of its members (s. <http://www.uni-due.de/diversity>)

It aims to increase the proportion of women among academic staff and therefore strongly encourages qualified women to apply. In accordance with the State Equal Opportunities Act, women with equal qualifications are given preferential consideration.

Applications from disabled or equivalents according to § 2 Abs. 3 SGB IX are encouraged.

Please send your application with the usual documents, quoting the reference number **675-21** to Prof. Dr. David Norris, ELH, E-Mail: david.norris@uni-due.de.

For further information on the advertised position, please also contact Prof. Dr. David Norris.

www.uni-due.de

