Job Offer: Junior Research Group Leader in Computational Neuroscience

Institution: LOEWE-Center DYNAMIC (Frankfurt, Germany)
Location: Bridging the Ernst Strüngmann Institute (ESI) for Neuroscience and the Department of Psychiatry at Goethe University Frankfurt
Position Type: Full-time, Fixed-term (3+3 years, renewable)
Salary: 100% E14 TV-H (in accordance with the collective wage agreement of the German states)
Additional Support: Funding for staff and research projects (negotiable)

The LOEWE-Center DYNAMIC invites applications for a **Junior Research Group Leader** position in **Computational Neuroscience**. We are seeking an outstanding and motivated postdoctoral researcher to lead a research group that develops and applies innovative **network neuroscience approaches** to study **mental disorders** using multimodal brain imaging techniques. This unique position aims to bridge the vibrant research environments of the **Ernst Strüngmann Institute (ESI)** and the **Department of Psychiatry** at Goethe University Frankfurt, fostering collaborative and translational research on brain network dysfunctions in mental health conditions.

Your Role:

- Establish and lead an independent research group focused on **network neuroscience** and its application to brain imaging modalities (e.g., MRI, fMRI, EEG) in mental disorders.
- Develop and apply advanced computational tools to analyze and interpret large-scale brain imaging data.
- Utilize brain stimulation techniques to examine stimulation-induced network perturbations.
- Collaborate with interdisciplinary teams at the LOEWE-Center DYNAMIC, ESI, and the Department of Psychiatry.
- Publish high-impact research and contribute to the advancement of computational methods in mental health neuroscience.
- Mentor and supervise doctoral and postdoctoral researchers.
- Apply for external funding to support your research program and expand collaborations.

Your Profile:

- A PhD in Computational Neuroscience, Data Science, Physics, Biomedical Engineering, or a related field.
- Strong expertise in developing and applying **network methods** to brain imaging modalities (e.g., functional and structural MRI, EEG, MEG).
- A proven track record of impactful research, as demonstrated by publications in high-ranking journals.
- While experience in studying brain networks and their role in psychiatric or neurological disorders is advantageous, it is not a requirement. A strong focus on methods is significantly more important.

- Proficiency in programming and data analysis (e.g., Python, MATLAB, R).
- Excellent interpersonal, organizational, and leadership skills.
- Commitment to interdisciplinary and translational research.

What We Offer:

- A full-time position (100% E14 TV-H) for an initial term of 3 years, with the possibility of extension for an additional 3 years following a positive evaluation.
- Generous **start-up package**, including funding for staff and research projects (based on negotiations).
- Access to state-of-the-art imaging facilities and computational resources.
- Opportunity to work in a highly collaborative environment that bridges basic and clinical neuroscience.
- Support for personal and professional development, including leadership and grant-writing training.

About LOEWE-Center DYNAMIC:

The LOEWE-Center DYNAMIC (https://www.dynamic-center.net/) is an interdisciplinary research center focused on understanding the **dynamic network organization of the brain** and its alterations in health and disease. Through cutting-edge methods in neuroscience, data science, and psychiatry, DYNAMIC fosters innovative approaches to explore how brain networks are formed, adapt, and change across various states of health and disease. The position provides an exciting opportunity to work at the interface of basic and clinical research in one of Germany's leading neuroscience hubs, Frankfurt am Main, while benefiting from collaborations with world-class researchers at ESI and Goethe University.

How to Apply:

To apply, please send the following documents in a single PDF file (Cover letter describing your research interests, relevant experience, and vision for the research group, Curriculum vitae, including a list of publications).

Applications should be sent via email to **repple@uni-frankfurt.de** with the subject line: "**Junior Research Group Leader Application – LOEWE-Center DYNAMIC**."

Application Deadline: February 15th 2025

We welcome applications from individuals of all genders and strongly encourage women and individuals from underrepresented groups to apply. The LOEWE-Center DYNAMIC and its affiliated institutions are committed to providing a supportive and inclusive research environment.

For inquiries about the position, please contact **Prof. Jonathan Repple (repple@uni-frankfurt.de)**