The University Hospital of Düsseldorf (UKD) is the largest hospital in the state capital and one of the most important medical centers in North Rhine-Westphalia. The 9,300 employees at the UKD and its subsidiaries work to ensure that more than 45,000 patients receive inpatient care and 270,000 receive outpatient care each year. The UKD is synonymous with international excellence in patient care, research, and teaching, as well as innovative and safe diagnostics, therapy, and prevention. Patients benefit from the intensive interdisciplinary collaboration among the 60 clinics and institutes. The university hospital's particular strength lies in the close integration of clinical practice and research to ensure the safe application of new methods. At the UKD, the medicine of tomorrow is being developed. Every day.

The **Institute of Anatomy I** at Heinrich Heine University Düsseldorf is seeking, for the project "The Relationship Between Gender-Specific Demographic, Lifestyle, and Health Trajectories and Cognitive Function in Older Adults: Findings from a Combined Approach Using Machine Learning and Structural Equation Modeling," starting 1 March 2027, a

Postdoctoral Researcher (m/f/d)

The position is subject to the German Law on Fixed-Term Academic Contracts (WissZeitVG, pursuant to § 2 (2)) and is initially limited in duration until the end of the project on 28 February 2030, or for 3 years.

Your Responsibilities:

- Conducting systems neuroscience research using large population-based neuroimaging datasets, e.g., to investigate the variability of the human brain or in the field of brain-behavior relationships in humans
- Development of predictive and structural equation models for the cognitive functions of older adults based on lifestyle, health, and demographic data, incorporating cross-sectional and longitudinal data
- Explicit investigation of cognitive functions with a particular focus on differences between biological sexes

Your Profile:

- Completed (or soon to be completed) Ph.D. in neuroscience, psychology, biomedicine, computer science, or related fields
- In-depth knowledge of the application of artificial intelligence and multivariate longitudinal statistical methods
- In-depth knowledge of neuropsychological functions or cognitive psychology
- Comprehensive proficiency in Python and R
- Interest in systemic neuroscientific and neuroanatomical questions
- Structured and independent work style
- Strong ability to work in a team
- Very good written and spoken English skills
- Knowledge of German would be desirable

We offer:

- A fixed-term employment contract for 3 years (full-time position)
- All benefits customary in the public sector, e.g., a supplementary occupational pension
- Secure and performance-based compensation in accordance with the collective bargaining agreement (TV-L)
- An academically excellent environment with opportunities to participate in continuing education and conferences

Compensation is provided in accordance with the provisions of the TV-L in pay grade 13, taking into account all prior service in accordance with collective bargaining agreements.

The employment contract will be concluded with Heinrich Heine University Düsseldorf.

Heinrich Heine University Düsseldorf is committed to increasing the proportion of women on its faculty. Applications from women will therefore be given preferential consideration if they have equal qualifications, competence, and professional performance, unless there are compelling reasons related to a male candidate. Heinrich Heine University upholds the principle of excellence through diversity. It has signed the “Diversity Charter” and successfully participated in the Stifterverband’s “Shaping Diversity” audit. It is certified as a family-friendly university and promotes the compatibility of academic or professional life with family life. Applications from qualified individuals with severe disabilities and those deemed equivalent under SGB IX are encouraged. The position is generally suitable for part-time employment.

Please submit your written application with the standard application documents within two weeks of the publication of this ad, preferably by email, to the following address:

bewerbungen@med.uni-duesseldorf.de
oder
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