The Institute of Neuroscience and Medicine (INM) is focused on the organization of the human brain at its various spatial and temporal scales. The institute “Structural and Functional Organization of the Brain” (INM-1) is developing a 3D model of the human brain with highest spatial resolution that integrates cytoarchitecture, connectivity, molecular organization, and genetic and functional measurements. As part of the German-Canadian Helmholtz International Lab HIBALL, in close collaboration with CIFAR and MILA in Canada, as well as Helmholtz AI, highly detailed 3D brain models are developed with novel deep learning methods and the latest supercomputing architectures which are used to analyze neuroscience data in the petabyte range.

Join us as soon as possible as

**Postdoc for the Helmholtz International BigBrain Analytics and Learning Laboratory (HIBALL)**

**Your Job:**
- Development and implementation of cytoarchitectonic and receptor-architectonic investigations of the human frontal brain and mapping of brain areas
- Investigation of the microstructure of the frontal brain using image analysis and deep learning
- Creating three-dimensional high-resolution maps and probability maps of the frontal brain
- Using the maps for functional analysis

**Your Profile:**
- University degree (Master) in biology, medicine, psychology or a comparable scientific field
- Neuroscientific knowledge
- Enjoy working with computers and willingness to learn existing scripts (Matlab,
Python) and to assist in the development of new scripts
• Good knowledge of statistics including experience with common statistical software (SPSS and Matlab) and willingness to develop this further
• Very independent and proactive working style
• Communication and teamwork skills as well as ability to work cooperatively
• Very good oral and written communication skills in German and English
• Enjoy working in a productive multidisciplinary, international team
• Enthusiasm for a cutting-edge topic with great scientific and social relevance
• Willingness to travel and to be mobile at short notice

Our Offer:
• Exciting working environment on an attractive research campus with excellent infrastructure, located between the cities of Cologne, Düsseldorf, and Aachen
• International and interdisciplinary working atmosphere
• A comprehensive further training programme
• Flexible working hours and various opportunities to reconcile work and private life
• Limited for 2 years with possible longer-term prospects
• Full-time position with the option of slightly reduced working hours
• Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD). Depending on the applicant’s qualifications and the precise nature of the tasks, salary grade EG 13 TVöD-Bund

Forschungszentrum Jülich promotes equal opportunities and diversity in its employment relations.
We also welcome applications from disabled persons.