The Jülich Centre for Neutron Science (JCNS) operates at the Heinz Maier-Leibnitz Zentrum (MLZ) in Garching near Munich a suite of high performance neutron scattering instruments. It provides access to these instruments for scientists from universities and research institutions in Germany and throughout the world. Within the user program more than 1000 scientists visit the MLZ every year to perform experiments in the physical, chemical, biological and materials sciences. In addition, JCNS is actively pursuing a research program in the field of soft matter science and condensed matter physics.

Scientific Computing Group of JCNS at MLZ is looking for a highly motivated postdoc to join the team working on Helmholtz AI project “AI for neutron and X-ray scattering”. The work will be performed in close collaboration with instrument scientists of MLZ and with Helmholtz-Zentrum Dresden-Rossendorf. We also closely cooperate with other European research centres.

We are looking to recruit a

**Data Analysis Software Developer / Postdoc – Machine learning/Artificial Intelligence**

**Your Job:**
- Apply existing and develop deep/machine learning techniques to analyze neutron and X-ray scattering data.
- Develop open-source software (Python, C++), deploy developed models
- Analyze performance of deep/machine learning models
- Actively collaborate with experimental physicists and instrument scientists
- Present research results at scientific meetings, conferences and as scientific papers

**Your Profile:**
- University degree and a PhD in physics, mathematics, computer science or related fields

The job will be advertised until the position has been successfully filled. You should therefore submit your application as soon as possible. We look forward to receiving your application via our Online-Recruitment-System!

**Questions about the vacancy?**
Get in touch with us by using our contact form.

Please note that for technical reasons we cannot accept applications via email.

www.fz-juelich.de
• Strong mathematical background
• Advanced knowledge of statistics is desired
• Comprehensive knowledge and experience in AI and applied machine learning
• Experience with Python (knowledge of pytorch and pandas is a benefit), C++ and numerical mathematics
• Experience with Unix/Linux (experience with HPC is a benefit)
• Very good command of written and spoken English
• Initiative character, self-motivated personality, creativity, good interpersonal, communication and presentation skills, result orientation and analytical skills

Our Offer:
• The position represents an excellent opportunity to carry out research in the novel field
• Challenging and varied work in a growing multicultural team of enthusiastic professionals
• Visibility of our products in the web, public git repositories, through scientific publications, and at schools and conferences
• A comprehensive further training programme
• Exciting working environment on an attractive research campus, ideally situated close to the city of Munich
• Flexible working hours and various opportunities to reconcile work and private life
• The position is limited for 3 years
• 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)

Place of employment: Garching (Munich)

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