JÜLICH
Forschungszentrum

Conducting research for a changing society: This is what drives us at Forschungszentrum Jülich. As a member of the Helmholtz Association, we aim to tackle the grand societal challenges of our time and conduct research into the possibilities of a digitized society, a climate-friendly energy system, and a resource-efficient economy. Work together with around 7,500 employees in one of Europe's biggest research centres and help us to shape change!

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.

Join our team to the next possible date as

Postdoc for the Neutron Backscattering Spectrometer SPHERES

Your Job:
We are looking for a highly motivated postdoc to join the neutron backscattering spectrometer team to support the instrument development program for the instrument SPHERES. To further enhance the capabilities of the instrument we are exploring the implementation of polarization analysis in combination with the high energy resolution the spectrometer provides. Furthermore we support to perform own high profile research in close cooperation with the JCNS institutes in Jülich and Garching in the field of soft matter or condensed matter physics. Your tasks in detail:

- Contribute to the instrument development of SPHERES to meet future experimental challenges
- Develop novel polarization analysis components for the backscattering spectrometer by performing Monte-Carlo simulations and neutron scattering experiments
- Conduct and disseminate world-class research via publications and conference presentations
- Represent and actively work on increasing the user base at MLZ

Your Profile:

- A Master and PhD degree in Physics, Physical Chemistry or a related discipline

We look forward to receiving your application until 05.09.2025 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

- A strong background in polarized neutron instrumentation
- Good knowledge of advanced neutron ray-tracing simulations (McStas/Vitess) of a full instrument, including the use of neutron polarization
- Good written and oral communication skills in English
- Initiative character, creativity, good interpersonal, communication and presentation skills, result orientation and analytical skills
- Ability to work independently and as a player in the SPHERES team

Our Offer:

We work on the very latest issues that impact our society and are offering you the chance to actively help in shaping the change! We support you in your work with:

- Comprehensive training courses and individual opportunities for personal and professional further development
- Extensive company health management
- Ideal conditions for balancing work and private life, as well as a family-friendly corporate policy
- Flexible work (location) arrangements, e.g. remote work
- Flexible working hours in a full-time position with the option of slightly reduced working hours (https://go.fzj.de/near-full-time)
- 30 days of annual leave and provision for days off between public holidays and weekends (e.g. between Christmas and New Year)
- Targeted services for international employees, e.g. through our International Advisory Service

In addition to exciting tasks and a collaborative working atmosphere at Jülich, we have a lot more to offer: https://go.fzj.de/benefits

The position is initially for a fixed term of 1 years, with possible long-term prospects. Salary and social benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund), pay group 13, depending on the applicant's qualifications and the precise nature of the tasks assigned to them. All information about the Collective Agreement for the Public Service (TVöD-Bund) can be found on the BMI website: https://go.fzj.de/bmi.tvoed The monthly salaries in euro can be found here: https://go.fzj.de/bmi.tvoed.entgelt

Place of employment: Garching (München)

We welcome applications from people with diverse backgrounds, e.g. in terms of age, gender, disability, sexual orientation / identity, and social, ethnic and religious origin. A diverse and inclusive working environment with equal opportunities in which everyone can realize their potential is important to us.

Further information on diversity and equal opportunities: https://go.fzj.de/equality