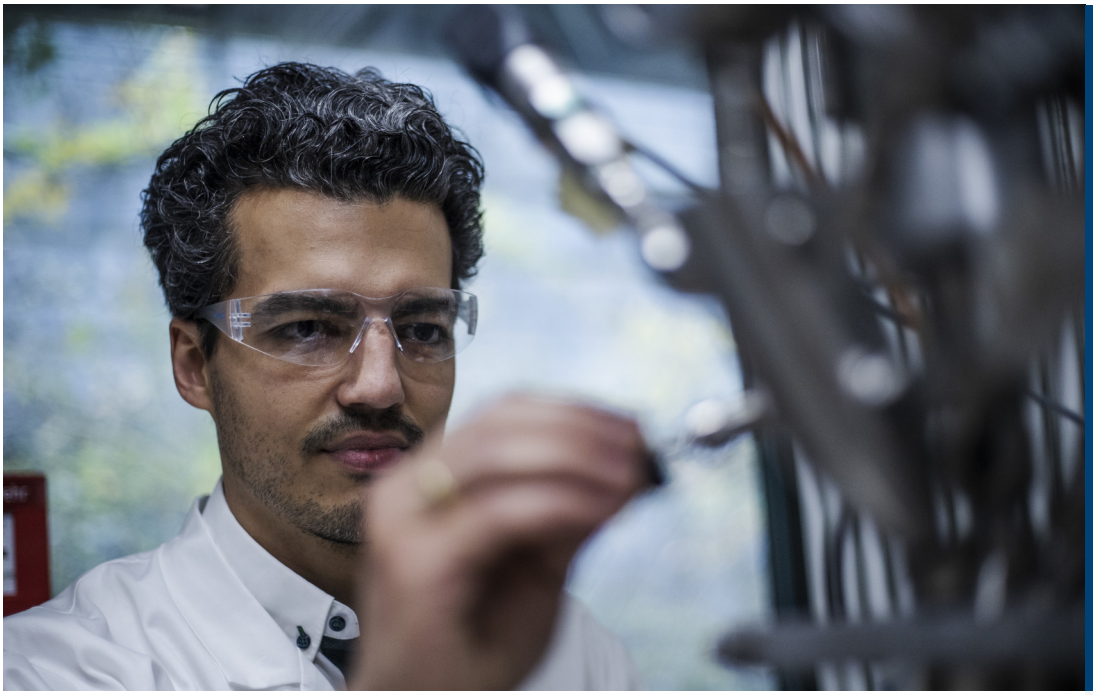
JÜLICH
Forschungszentrum



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 – Neutron Methods (JCNS-4) is looking for a physicist with a PhD and an interest in technical work on state-of-the-art physics equipment to join its sample environment team. The 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. The Sample Environment Team is part of the science service group and plays a key role for the success of the user experiments.

Join our team to the next possible date as

Research Scientist with focus on low-temperature technology, sample environment, neutron scattering

Your Job:
As part of the sample environment team, you will work closely with a group of instrument scientists and international measurement guests in an international scientific environment. Your tasks will include provision of various equipment at the respective neutron scattering instruments to enable users to access to the desired environmental parameters of the sample, such as magnetic field, temperature, humidity, voltage, pressure, etc. This involves using an extensive pool of equipment such as cryostats, dew point generators, ovens, magnets, pressure cells, etc. You will take care of regular maintenance and repair of this equipment pool to ensure smooth operation. Furthermore, you will expand and develop the equipment in consultation with the scientific community to guarantee that it remains state-of-the-art and meets scientific requirements. This is done either through purchases or in-house development in close cooperation with our design department in Jülich. In addition to these general tasks related to the sample environment, your work will focus on generating low temperatures (mK to a few K) using

We look forward to receiving your application until 14.09.2025 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

various cryostats, cryomagnet, and delution inserts.

Your Profile:

- Master`s degree in physics or in a similar field, preferably with a PhD
- You have experience in independently setting up experiments or measuring instruments
- You have experience with ultra-low temperatures (mK to a few K) using dry and wet cryostats and mK inserts
- You are familiar with vacuum technology
- You work independently both in the laboratory and on projects
- You are practical and know how to use a soldering station and hardware tools, as well you know how to work with a computer
- You work as a team player to solve problems analytically and work out solutions
- You are willing to learn something new every day and are willing to participate in our on-call service
- You have very good command of written and spoken English. For daily life at work and at home we would like you to acquire German skills up to B2 level

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:

- Exciting challenges at a world-leading large-scale research facility in an international environment
- Competent support from experts in IT, construction, and electrical engineering
- Comprehensive training courses and individual opportunities for personal and professional further development
- A workplace in an exciting working environment on an attractive research campus in an ideal location near the city of Munich
- Flexible working hours in a full-time position (39 hours/week) 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)

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

You will be employed for a fixed term of 2 years. Salary and social security benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund), pay group 13, depending on your current qualifications and the precise nature of the tasks assigned to you. 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