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 7,400 employees in one of Europe’s biggest research centres and help us to shape change!

The Jülich Supercomputing Centre (JSC) operates one of the most powerful supercomputing Infrastructures in Europe, making it available to researchers at the Forschungszentrum Jülich (FZJ), in Germany, and throughout Europe. Within the division "HPC for Quantum Systems", the Simulation and Data Laboratory (SDL) Numerical Quantum Field Theory aims to understand the properties of strongly interacting/correlated matter, with scientific objectives range from the study of nucleon properties to strongly correlated electronic systems, such as carbon nanostructures. To study these systems, the SDL develops algorithms and implementations for various high-performance computing (HPC) systems. Within the project B2 of the recently granted Collaborative Research Centre "NuMeriQS" of Bonn University, the Max-Planck-Institut for Kohlenforschung, and JSC we are offering a PostDoc position with a focus on the development of performance portable software for these simulations.

We are offering a

Postdoc - Lattice field theory

Your Job:
You will be
• designing, developing and implementing simulation software,
• publishing and presenting the results,
• while collaborating within the scientists at JSC, Bonn University, and within the CRC "NuMeriQS"

Your Profile:
• Completed Master’s degree and subsequent PhD degree in physics or related field
• Knowledge of lattice quantum field theory
• Strong background in C++
• Experience with accelerated and architectures, Linux and high-performance computing (HPC)
• Experience with profiling and performance optimization would be welcome assets

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
• Willingness present results at international conferences
• Good command of English, knowledge of German is not a prerequisite (language courses are offered)
• Structured and systematic working style and ability to work cooperatively in international teams

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:
• Access to and discretionary resources on the latest HPC Systems, such as the upcoming exascale system "JUPITER"
• The opportunity to participate in international conferences and workshops
• 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
• 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 in Jülich, we have a lot more to offer: https://go.fzj.de/benefits

The position is initially for a fixed term of 3 years. 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.

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.