



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 6,400 employees in one of Europe's biggest research centres and help us to shape change!

The Institute for Advanced Simulations - Computational Biomedicine (INM-9) at the Jülich Research Center uses and develops high performance computing-based multiscale simulations to investigate key molecular events for neuronal function and dysfunction. For this purpose, we work closely with the substitute IAS-5.

Within the the DFG Research Group "Functional Dynamics of ion channels and transporters - Dynlon" (<https://www.uniklinikum-jena.de/dynlon/en/>), we are currently searching for qualified candidates with solid background in molecular dynamics, free energy calculations and statistical mechanics applied to biological systems.

We are looking to recruit a

Postdoc - Molecular Simulation of SLC17 transporters

Your Job:

- Investigate the molecular mechanism of proton transfer/sensitivity and substrate recognition in vesicular glutamate transporters and their bacterial homologs
- Performing multiscale molecular dynamics simulations and employing enhanced sampling methods like metadynamics
- Submission of computational projects in order to obtain the required computational resources
- Contributions to workshops and training activities
- Contribute to an international research project, with a network of scientists across all over Europe

Your Profile:

- Completed study (Master) in computational chemistry, biochemistry, physics or related fields
- PhD degree in the above-mentioned fields
- Demonstrated scientific track record (publications, conference participations)
- Expertise in force field-based MD simulations and Quantum Mechanics / Molecular

We look forward to receiving your application until 18.04.2021 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

Mechanics

- Experience with Linux-based systems and (preferred) high performance computing
- Ability to work independently as well as collaboratively in an international, interdisciplinary team
- Very good communication and organizational skills
- Fluency in English language in written and spoken form

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:

- Outstanding research and computing infrastructures in one of Europe's largest supercomputing facilities
- Further development of own scientific profile through a strong international network
- Participation in national and international conferences and workshops
- Opportunities of being part of an international scientific community
- 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
- Full-time position with the option of slightly reduced working hours and 30 days of annual leave
- Targeted services for international employees, e.g. through our International Advisory Service

We offer you an exciting and varied role in an international and interdisciplinary working environment. The position is initially for a fixed term of 2 years. 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 13 TVöD-Bund.

Forschungszentrum Jülich promotes equal opportunities and diversity in its employment relations.

We also welcome applications from disabled persons.