UNIVERSITÄT PADERBORN

Paderborn University is a high-performance and internationally oriented university. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities. **Join us to invent the future!**

Paderborn Center for Parallel Computing — **NATIONALES HOCHLEISTUNGS RECHNEN**

The **National High-performance Computing Center (NHR)** and research institute **Paderborn Center for Parallel Computing (PC²)** is seeking as soon as possible a

Postdoc as HPC expert (f/m/d) for quantum chemistry
(Salary according to EG 13 or EG 14 TV-L)

with 100 % of the regular working hours. This is a qualification position within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which serves to qualify as an HPC consultant (f/m/d) for quantum chemistry. The position is initially available for 3 years, depending on the qualification achieved to date.

Core tasks will include:

- Cooperative research and development together with users from the focus areas of PC² (esp. physics, chemistry, engineering)
- Support of users of PC² with quantum chemistry calculations and their optimization and workflow setup
- Organization and set up of courses, workshops, and conferences in the area of atomistic simulations in the focus area of the applicant
- Extension of the hard- and software infrastructure in cooperation with the operation staff
- For EG 14 TV-L the assignment of additional tasks in independent research and project management is required

Your profile:

- Scientific university degree (Master) in theoretical solid-state physics, chemistry or material sciences
- For Postdocs: Promotion in theoretical solid-state physics, chemistry or material sciences
- Advanced knowledge of quantum chemistry methods
- Experience with computational quantum chemistry codes like Gaussian, ORCA or others
- Practical experience with the simulation using HPC clusters
- Good knowledge in performance-oriented programming and optimization
- Very good English skills, written and spoken
- Ability to work independently and with commitment

Advantageous qualifications:

- Good German skills, written and spoken
- The desire to work on PC² research topics
- High affinity for supporting users in the realisation of their computing projects

What we offer:

- An open and international working environment with very good prospects for further qualification, e.g. for postdocs
- Challenging and interesting research topics and a team of researchers, HPC admins, and support staff to tackle them together
- Work with state-of-the-art HPC systems and accelerators
- Sufficient scope for realizing your own ideas and professional development
- Flexible working hours, the possibility of part-time work, and the option to work partly at home
- Modern equipment at the workplace and for mobile work

Since Paderborn University seeks to increase the number of female scientists, applications of women are especially welcome. In case of equal qualification and scientific achievements, they will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Policy (LGG), unless there are cogent reasons to give preference to another applicant. Likewise, applications of disabled people with appropriate qualification are explicitly requested. This also applies to people with equal status according to the German social law SGB IX.

If you have any questions about the job profile send them as well to this address. Further information on the PC² can be found at: https://pc2.uni-paderborn.de/go/jobs. Please send your application including a motivation letter, CV, and certificates via email (using the **Ref. No. 6462**) to: pc2-jobs@uni-paderborn.de or the address listed below.

Information regarding the processing of your personal data can be located at:
https://www.uni-paderborn.de/en/zv/personaldatenschutz.

Prof. Dr. Christian Plessl
PC²
Paderborn University
Warburger Str. 100
33098 Paderborn