

The **Institute of Physical Chemistry (work group Prof. Dr. Doreen Mollenhauer), Faculty of Biology and Chemistry** has a temporary vacancy within the DFG-funded project “*Redox chemistry of ternary graphite intercalation systems: Theory and Experiment*” for a full-time position as

## Research Associate

to be filled next possible date restricted to two years. In accordance with the current legislation the position is remunerated according to “Entgeltgruppe 13 Tarifvertrag Hessen (TV-H)”.

### Responsibilities:

Performance of quantum chemistry calculations to model the intercalation of alkaline ions and complexes into graphite. Highly correlated wavefunction-based methods and density functional theory with current corrections will be utilized. Furthermore, molecular dynamic simulation will be performed in order to understand diffusion processes. The results are to be documented, evaluated and subsequently published. There will be a close cooperation with the experimental working group of Prof. Dr. Adelhelm (FSU Jena). Regarding highly correlated wavefunction-based approaches a close cooperation with Dr. Voloshina (HU Berlin) will take place.

### Qualifications:

You have successfully completed your scientific education at a University (diploma or master's degree) with very good results in theoretical chemistry / physics and have obtained a doctoral degree in this field. Extensive knowledge in the field of theoretical chemistry / quantum chemistry is expected. Ideally you have experience in the field of molecular dynamics. The project involves intensive scientific exchange with scientists from other work groups. This requires a very good command of the English language on the one hand, and willingness to participate in international cooperation, excellent communication skills and an interest in interdisciplinary questions on the other hand.

The Justus Liebig University Giessen seeks to increase the proportion of women in scientific research and strongly encourages female scientists to apply for the available position. As a family friendly institution of higher education the Justus Liebig University Giessen welcomes applicants with children.

Please send your application (no e-mail) stating the reference number **635/05171/08** together with the usual documents **by 15.12.2016** to **Prof. Dr. Doreen Mollenhauer, Physikalisch-Chemisches Institut, Heinrich-Buff-Ring 17, 35392 Giessen**. Applicants with disabilities but otherwise equal qualifications will be preferred. Please do not submit originals as the documents will not be returned after the selection procedure has been completed.

More informations you can get from Prof. Dr. Doreen Mollenhauer (Tel.: 0641/99 34560).