

2 PhD Positions in the field of Theoretical Chemistry/Condensed Matter Physics

Technische Universität München is seeking two Research Associates (f/m/d) to study electronic processes in energy conversion and new materials, combined with the opportunity to pursue a PhD.

Project Description:

The research group of Prof. Frank Ortmann was established at TU Munich (TUM) to strengthen computational research in the strategic field of energy conversion. The group is part of the **Cluster of Excellence “e-conversion”**, the DFG Collaborative Research Center **“Chemistry of Synthetic Two-Dimensional Materials”** and benefits from highest-level experimental and theoretical collaborations. TUM is ranked among the top universities in Europe.

Your activities will focus on **electronic structure simulations** and **crystal structure prediction** or **method development** for **electron-vibration coupling** and their application to various **molecular materials**. The ability to work in a team and a high motivation to advance the scientific project are expected. As the successful candidate, you will benefit from the membership at the TUM Graduate School, be part of an active international scientific network and present your results in national and international conferences.

Your qualifications:

For a successful application, a Master degree in Physics, Chemistry will be necessary at the starting time of the PhD project. The candidates are expected to have a background in theoretical chemistry or theoretical physics and interest and experience with computer simulations. They should enjoy taking on new challenges and have first experience with programming. Knowledge of ab initio simulations would be of great advantage. Very good communication and writing skills in English are further expected.

Our offer:

We offer a position as research associate with the opportunity to pursue a doctoral degree. The position is available immediately for the duration of three years. Payment will be based on the Collective Agreement for the Civil Service of the Länder (TV-L) according to a 66% TV-L 13 scale. TUM strives to raise the proportion of women in its workforce and explicitly encourages applications from qualified women. Applications from disabled persons with essentially the same qualifications will be given preference.

Application:

Application documents (CV, motivation letter, up to two reference contacts) should be sent as a single pdf file to frank.ortmann@tum.de. Subject: "Application PhD2022-3 ", Deadline: 30.11.2022. Successful candidates can be hired immediately.