

## Research associate:

### Ultrafast quantum dynamics in structured laser fields. Halle, Germany

A research associate (m/f/d) position in the group of non-equilibrium many-body systems (<http://qft0.physik.uni-halle.de/>) at the institute of physics of the Martin-Luther University, Halle-Wittenberg, Germany, is available for initially 3 years with the possibility for post-doctoral qualification (Habilitation). The aim is to develop theories and codes for the coherent control of charge and spin dynamic in molecular and nanostructures driven by textured laser pulses.

#### Necessary qualifications

- PhD. in physics or quantum chemistry
- Demonstrated experience in theoretical and computational methods of quantum dynamics in laser fields
- Capability of independent and collaborative research
- Solid understanding of spin dynamics
- English communication skills, written and spoken

#### Desired Qualifications

- Knowledge of statistical mechanics and quantum information
- Experience in computational packages for quantum material simulations
- German language skills

#### You can expect

- Be part of theory/experiment international projects with regular meetings
- A research-intensive environment with a range of topics and tasks
- Opportunity to supervise BSc and MSc students and involvement in teaching
- Be part of an international dynamic and supportive team
- A range of training and further education opportunities with the possibility for a qualification towards Habilitation
- Diverse sports and health offers (university sports)

**Appointment date:** as soon as possible

**Contract:** 36 Months, full-time, paid on the TV-L scale level 13

**Application:** Send your application materials [Jamal.Berakdar@physik.uni-halle.de](mailto:Jamal.Berakdar@physik.uni-halle.de)  
Subject: "Research associate: Quantum Dynamics" including the following

- **cover letter:** explaining how your research profile fits the open position
- **CV:** including education and research records with contacts of at least two referees
- **PhD thesis:** if not in English, provide a summary and/or corresponding publications

Applications will be evaluated immediately until the position is filled.

The Martin Luther University Halle-Wittenberg (MLU) is the oldest and largest university in the State of Saxony-Anhalt with more than 500 years history with currently more than 20,000 students enrolled. The university has excellent national and international ties and strong interconnection to on-site research units of national research institutions such as Max-Planck and Fraunhofer Institutes.