

We are one of the youngest universities in Germany and think in terms of possibilities rather than limitations. In the heart of the Ruhr metropolis, in our 11 faculties, we develop ideas for the future. We are strong in research and teaching, live diversity, support potential and are highly committed to an educational equality that deserves this name.

The **University of Duisburg-Essen** invites applications for a

Post-Doc position for 2 years

(Salary scale 13 TV-L)

at the Faculty of Physics, located in Duisburg, Germany

Main research topics and duties:

Research on non-equilibrium dynamics in condensed matter systems, with focus on the *ab initio* description of electronic excitation and relaxation dynamics, specifically the theoretical description of electron-electron and electron-phonon scattering in thin films and two-dimensional materials.

Teaching assistance, including assistance during students' exams and related administrative work.

The job offers opportunity for further scientific qualification.

Qualifications required:

Ph.D. degree in physics or chemistry in the area of computational condensed matter physics or computational materials science. Documented experience in methods of atomistic quantum simulations of the electronic structure of low-dimensional systems, surfaces or interfaces.

Acquaintance with computers running under Unix/Linux and programming skills in Fortran or C are required. Experience with codes for density functional theory calculations (VASP, Quantum Espresso, FHI-aims) and/or methods for treating electronically excited states (e.g. GW, TDDFT) would be ideal.

Proposed starting date: Dec. 1st, 2018, or later

Duration of contract: 2 years

Working hours: full-time position

Application deadline: September 27th, 2018

The University of Duisburg-Essen aims to promote the diversity of its members

(see <http://www.uni-due.de/diversity>).

It is seeking to increase the number of women on its scientific staff and therefore strongly encourages suitably qualified women to apply. In case of equal qualification, women will be given preference in accordance with state equal opportunity legislation. Applications from suitable handicapped persons and equivalent applicants according to Article 2, Paragraph 3 of the social code (SGB IX) are also welcome.

Your application should contain: curriculum vitae, copies of your university certificates, list of publications, copies of your three most relevant publications. Send your application to: Professor Peter Kratzer, Fakultät für Physik, Universität Duisburg–Essen, Lotharstraße 1, D-47048 Duisburg, Germany, or as e–mail to peter.kratzer@uni-due.de

Information on the Faculty and the Kratzer group available at:

<http://www.uni-due.de/physik/kratzer>