



MAX-PLANCK-GESellschaft

The Max Planck Institute for Solid State Research in Stuttgart, Germany, is an internationally renowned institute of the Max Planck Society for the Advancement of Science with a staff of approximately 460 working in the field of fundamental research in chemistry and physics.

We are offering

## **Two PhD Positions in Theoretical Chemistry**

in the Electronic Structure Theory Department (Prof. Ali Alavi), working with Dr. David Tew. The positions are funded for three years initially.

One position will involve the development of theoretical methods and software that can reliably predict the electronic structure of large complex systems. The work will focus on designing and implementing methods that scale linearly with system size and that can efficiently exploit modern massively parallel computer architectures.

The other position will be concerned with developing theory for a quantum dynamics-classical dynamics embedding approach in the context of Gaussian wave packet dynamics, which targets the quantum mechanical study of dynamics at reaction centres in the condensed phase and at interfaces.

Successful applicants will be highly motivated and enthusiastic theorists with a strong background in physics or theoretical chemistry and experience in programming. He or she has to be fluent in English.

The Max Planck Society is committed to employing more disabled individuals and especially encourages them to apply. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented, and therefore explicitly encourages women to apply.

Interested candidates should send an application letter, curriculum vitae and the names of two references to:

Max Planck Institute for Solid State Research

Dr. David Tew

Heisenbergstraße 1, D-70569 Stuttgart

E-mail: [d.tew@fkf.mpg.de](mailto:d.tew@fkf.mpg.de)

Please quote our reference no. 57.17.