

Materials and Concepts for Advanced Interconnects

Within the International Research Training Group,

One (1) PhD position (m/f)

at Chemnitz University of Technology

is available from **1 March 2010** with respect to the subproject

[G3 - Simulation of Nanoscaled Interconnect Systems.](#)

Details of the PhD position and possible topics:

- Quantum chemical simulation and modeling of atomic layer deposition (ALD) processes
- Quantum physical simulation of electronic transport in ALD coated interconnect nanostructures (copper, carbon nanotubes)

For further details concerning the scientific topics please contact Dr. Jörg Schuster (joerg.schuster@zfm.tu-chemnitz.de)

We welcome applications of highly qualified graduates with a Diploma, a Master's degree or comparable qualification in **Physics** or **Electrical Engineering**. A strong interest for multidisciplinary research is required. Good knowledge of the English language, both spoken and written, is essential. Due to the international character of the project, international students are especially encouraged to apply.

PhD candidates will receive a grant of EUR 1340 per month plus a monthly allowance for consumables, books etc. of EUR 103, as well as an allowance depending on their family status. The duration of the PhD grants is 2 years, and can be extended to a maximum period of 3 years. Within this time, the PhD thesis must be completed.

Successful participation in the study and student exchange programs of the IRTG is required. PhD candidates will usually be employed for a probation period of 6 months.

Your application should contain the following documents:

- Cover letter outlining the background of the application and the preferred project to work in
- Resume / CV
- Certificates and references of completed studies
- Certificate of scientific degree

Letters of recommendation and a publication list are appreciated.

Please send your documents to

Prof. Dr. Thomas Gessner
Technische Universität Chemnitz
Fakultät für Elektrotechnik und Informationstechnik
Reichenhainer Straße 70
D-09107 Chemnitz

Chemnitz University of Technology is seeking to increase the fraction of female staff in academia. Qualified women are therefore especially encouraged to apply. Applications of equally qualified handicapped people will be considered preferentially.