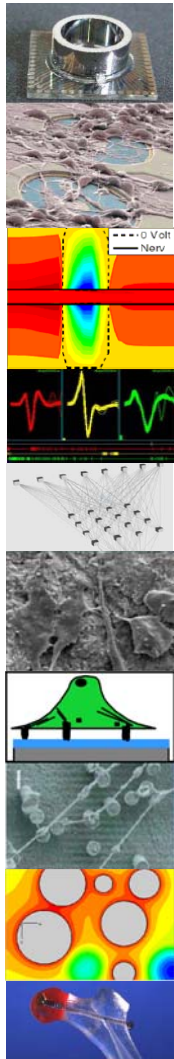


Universität Rostock

DFG Research Training Group 1505 „welisa“, Speaker: Mrs. Prof. Dr. Ursula van Rienen
 „Analyse und Simulation elektrischer Wechselwirkungen zwischen Implantaten und Biosystemen“

15 Doctoral Scholarships / 1 Postdoctoral Position



are open at the DFG Research Training Group (Graduiertenkolleg) 1505 "**Analysis and Simulation of Electric Interactions between Implants and Biosystems**" to applicants with an interest in the programme's interdisciplinary research focus on bioelectromagnetics, bioelectrochemistry and medical implant technology:

- | | |
|--|------------------------------|
| Electrical Engineering | Medicine |
| - Computational (Bio-)Electromagnetics | - Orthopaedics |
| - Electrochemistry | - Ear, Nose and Throat (ENT) |
| - Biomaterials / Interface Analysis | - Neurology |
| Computer Science | - Biomaterials |
| - Artificial Neural Networks | Biology |
| - Systems Biology / Bioinformatics | - Biophysics |
| Mathematics | - Cell Biology |
| - Optimization | Physics |
| - Statistics | - New Materials |

The coordinated research programme is a joint activity of the faculties of Computer Science and Electrical Engineering, Medicine, and Mathematics and Natural Sciences at the University of Rostock. Specifically, topics regard experiment, analysis and simulation of electrical field characteristics and surface properties of implants such as orthopaedic endoprostheses, deep brain stimulation electrodes and inner ear implants in the context of cellular and tissue reactions in cell culture, as well as in cell-chip and animal models. Alongside their PhD research, doctoral students attend relevant courses and carry out joint research in the framework of interdisciplinary seminars.

Financed by the German Research Foundation (Deutsche Forschungsgemeinschaft - DFG), the scholarships amount to € 1.340 (tax exempt) per month for three years; in addition, research and travel funds will be provided. Depending on the doctoral student's academic background and research topic, the degrees of Dr.-Ing. (PhD), Dr. med. (MD) or Dr. rer. nat. (PhD) may be awarded.

The Postdoctoral position runs for two years. The payment is according to TVL-O 13 (minimum gross of € 2.810 per month). The candidate should have a background in systems biology or computational (bio-)electromagnetics.

Successful candidates will have an excellent academic record in one of the aforementioned disciplines, be fluent in English and show an interest in interdisciplinary work.

The university is committed to increase the proportion of women in research and therefore encourages female candidates to apply. Scholarships start from October 2008 onwards.

Further information on the Research Training Group and the application form are available at <http://www.welisa.uni-rostock.de>.

Electronic applications in pdf format, including a CV, the names of three referees and transcripts of documents summarising their academic performance should be submitted to welisa.applications@uni-rostock.de

Application deadline for a start in October is 01.08.2008. Interviews will be held in August.

Applications for a start in January or April 2009 are already welcome.