



The Graduate School *Cognitive Interaction Technology* at Bielefeld University, Germany offers a

Research Grant for a PhD Student
in the research project

Designing a multi-legged robot as a test-bed for motion intelligence mechanisms

This project is situated in the CITEC research area *motion intelligence* and is jointly supervised by the departments of Mechatronics of Biomimetic Actuators and Biological Cybernetics. Its goal is the development of a multi-legged multipurpose robot platform that serves as a carrier for different sensor modalities and the underlying technologies. A certain degree of autonomy for field trials will be achieved, for example, to collect vision and navigation data from real world scenarios and to test walking capabilities, decision making and planning ahead (mental models) also outside the lab environment.

The Center of Excellence *Cognitive Interaction Technology* (CITEC) at Bielefeld University has been established in the framework of the Excellence Initiative as a research center for intelligent systems and cognitive interaction between humans and technical systems. The CITEC agenda comprises the central topics of *motion intelligence*, *attentive systems*, *situated communication*, and *memory and learning*. It combines the knowledge of computer scientists, biologists, physicists, sports scientists, linguists and psychologists in order to understand the processes and functional constituents of cognitive interaction. In addition, research and development are directed towards establishing cognitive interfaces that facilitate the use of complex technical systems.

We invite applications from outstanding young scientists. A successful candidate must hold an excellent academic degree (MSc/Diploma) in the area of engineering sciences or natural/computer sciences. We are particularly interested in applicants with a strong interest in bioinspired robotics and a background in a corresponding field, e.g. mechatronics, embedded systems or applied computer sciences. Strong programming skills, advanced mathematical competence and the interest in interdisciplinary work are expected. The candidate should be proficient in both written and spoken English. The research grant will be given for the duration of three years starting winter term 2008.

Complete applications include: a cover letter providing information about the qualification and the motivation of the candidate, a CV including publication list and research experience, certificates of academic qualifications, as well as the name and contact information of two references. Please provide your documents as electronic data (pdf).

Bielefeld University is an equal opportunity employer and therefore especially encourages women to apply. In the case of comparable competences and qualification, women will preferably be considered if there are no dominating reasons arising from the person of another applicant. Bielefeld University explicitly encourages disabled people to apply.

Applications arriving no later than September 14, 2008 will be guaranteed to receive full consideration in the current call. Please submit your application to

Dr. Axel Schneider
Universität Bielefeld
Technische Fakultät / AG MBA
Universitätsstraße 25
33615 Bielefeld
Germany

axel.schneider@uni-bielefeld.de

Prof. Dr. Josef Schmitz
Universität Bielefeld
Biologische Kybernetik
Universitätsstraße 25
33615 Bielefeld
Germany

josef.schmitz@uni-bielefeld.de

For further information about CITEC, please visit: www.cit-ec.de.