The University of Twente (http://www.utwente.nl/en/) is an entrepreneurial research university, located about 200 km from Amsterdam in Enschede, a city in Twente. Research focuses on nanotechnology, information and communication technology, biomedical technology, policy studies, construction management & engineering, and mechanics. More than 7,000 students and 2,700 staff members live, work and recreate at the UT, the Netherlands' only campus university with a park-like atmosphere and numerous sporting facilities.

The Biomedical Signals and Systems (BSS) chair (http://bss.ewi.utwente.nl/) is part of the faculty of Electrical Engineering, Mathematics and Computer Science (EWI: http://www.ewi.utwente.nl/en/index.html). BSS focuses on neural engineering and human motor control. BSS is embedded in the Institute for Biomedical Technology (BMTI: http://www.bmti.utwente.nl/) and the Centre for Telecommunication and Information Technology (CTIT: http://www.ctit.utwente.nl/). Both are interdisciplinary spearhead institutes of UT.

In the BSS group there is a

Vacancy for a Ph.D. student position
in the research project 'PowerSensor'

This project is financially supported by the Dutch Technology Foundation STW (Technologiestichting STW – project number 10333)

The 'PowerSensor' project
It is the objective of the PowerSensor project to develop modalities for quantitative assessment of the dynamic interactions between the human body and it's environment during arbitrary movements using sensing systems on the interface. It involves the development of miniature sensors, sensor configurations and algorithms. The potential of this new method will be demonstrated in representative applications in ergonomics, rehabilitation and sports in close collaboration with selected users.

The Ph.D. student will develop measurement technology and algorithms for signal analysis. He/she will work in the Biomedical Signals and Systems (BSS) chair. The PowerSensor project is performed in collaboration with the Transducers Science and Technology (TST) chair (http://tst.ewi.utwente.nl/)

What we ask:
An MSc or comparable degree in engineering or physics with demonstrated abilities in the fields of measurement technology, systems and control and signal analysis; Affinity with biomedical engineering, human motor control and 3D kinematics and kinetics; Good control of the English language in written and spoken form; Ability to perform research work in a team.

What we offer:
Gross monthly salary for the PhD position range from € 2.042,- gross per month in the first year up to € 2.612,- gross per month in the fourth year. In addition to this, we offer a holiday allowance (amounts to 8%), an end-of-year bonus of one extra month, various sporting and cultural facilities at reduced rate, medical insurance at a reduced rate etc.

Contact
For more information please contact Prof. Peter Veltink (p.h.veltink@utwente.nl)
Applications should be in our possession, **no later than 1 April 2009**
Please send your applications to: bss@ewi.utwente.nl and mention vacancy number 09/039.