

Prof. Dr. Johannes Buschmann
Buschmann Labor- und Medizintechnik
Hohenaschauerstr. 92
81669 München

Diploma / Masters Thesis

Development of a highly sensitive current amplifier for a new type of diagnostic procedure at the cellular level

Description

Cells are electrically charged, with charge directed from within the cell outwards. This charge or more precisely, the minute currents which result from the charge will be measured. A highly sensitive current amplifier will be assembled, which will be tested as a new type of diagnostic instrument.

Content of the project

The project consists of two parts: assembly of the analog circuits (Hardware) and testing on a biological model. Several test trials and improvement stages will be conducted, to see if this new form of diagnosis functions as postulated.

Candidate requirements

- Study in the area of electrical and information engineering
- basic knowledge of analog technology
- proficiency in circuit design and layout

What we offer

- Collaboration on an innovative project
- an interdisciplinary research area
- pleasant and relaxed work climate
- a young and innovative team

Contact person

Jin Huang

Tel: 089 / 661147

Fax: 089 / 661157

j.huang@blm-research.de