

Six International Fellowships within CRC 1261 “Magnetolectric Sensors”

The Collaborative Research Center 1261 (CRC 1261) “Magnetolectric Sensors: From Composite Materials to Biomagnetic Diagnostics” at Kiel University, Germany, offers six international fellowships to master students or master graduates.

Within the CRC 1261 highly sensitive magnetolectric sensors for biomedical applications are developed in a cross-disciplinary team of scientists from materials science, electrical engineering, physics and medicine. In 14 research projects topics concerning magnetolectric sensor development and fabrication (mainly materials science), sensor characterization and signal processing (mainly electrical engineering), sensor modeling and sensor analysis as well as (medical) applications are covered.

You can find more detailed information about our research on our website:

www.sfb1261.de

Within the scope of the CRC 1261 six international fellowships between three and six months duration are offered. The fellowships include travel costs to and from Kiel, accommodation for the time of your stay and 600 € fellowship per month.

The following topics are offered as fellowships (starting date flexible):

- “*Micromagnetic investigations of magnetolectric sensor response,*” Prof. Jeffrey McCord, Institute for Materials Science
- “*Magnetolectric sensors on shape memory substrates,*” Prof. Eckhard Quandt, Institute for Materials Science
- “*Integration of organic electret films into magnetolectric sensors with soft magnetostrictives,*” Prof. Franz Faupel, Institute for Materials Science
- “*Design, simulation and layout of a low-noise amplifier for DeltaE-Sensors in integrated circuits (IC),*” Prof. Andreas Bahr, Institute for Electrical Engineering and Information Technology
- “*Finite-element-method simulation of magnetolectric sensors,*” Prof. Martina Gerken, Institute for Electrical Engineering and Information Technology
- “*3D-printed scaffolds for cell cultivation,*” Prof. Christine Selhuber-Unkel, Institute for Materials Science

If you have any questions, please contact Dr. Julia Reverey via mail (jfr@tf.uni-kiel.de) or telephone (+49 431 880 6271) after 14th of May.

For your application, please send a motivation letter with the topic you are interested in (one page maximum), a possible starting date between June and October, your CV, and your university degrees in one pdf document to the mailing address above **until 31 of May**.