

Job advertisement

At the Institute of Materials Science, Chair of Inorganic Functional Materials, at the Faculty of Engineering of the Christian-Albrechts-Universität zu Kiel, a position of a

scientific assistant

for a limited period of time until 30.06.2024 is to be filled. The remuneration is based on pay group **14 TV-L**, provided that the requirements of the collective agreement are met. The regular weekly working hours correspond to full employment.

The position is within the interdisciplinary Collaborative Research Center 1261 (**CRC 1261**) "Magnetolectric Sensors: From Composite Materials to Biomagnetic Diagnostics". The goal of subproject A7 is to investigate a novel magnetolectric sensor concept and to develop and apply corresponding biomagnetic sensor systems in cooperation with other subprojects.

The work in CRC1261 therefore includes close cooperation with the subprojects on layer development, sensor fabrication, analog electronics, digital signal processing, and medical applications of biomagnetic sensor systems.

As part of the integrated graduate program, CRC1261 offers its members a diversely structured continuing education program. This program offers, among other things, the opportunity to further develop technical, linguistic and communicative skills. Further information can be found on our website: <https://biomagnetic-sensing.de>

Responsibilities:

- Micro-/nanosystems engineering fabrication and characterization of inverse magnetolectric sensors
- Design, conceptualization and fabrication of magnetolectric thin film composites
- Functional characterization of magnetolectric sensors (e.g. sensitivity, noise, detection limit, bandwidth, dynamics)
- Cooperation with other subprojects of the Collaborative Research Center
- Documentation of results (refereed publications, lectures)
- Supervision of bachelor and master students in this field of work

Requirements for employment:

- PhD in materials science, physics, electrical engineering, or micro/nanosystems engineering completed with excellent results.
- Preferred experience in one or more of the following areas:
 - Sensor research, development and characterization.
 - Fabrication and characterization of magnetic thin films
 - Development and application of low-noise measurement techniques
- Good English language skills

For more information on gender equality and equal opportunity we refer to our website:

<https://www.uni-kiel.de/personal/de/stellen/extern/wiss>

Please send your application with the usual documents (cover letter, CV, certificates and references) as a summarized PDF file by 13th of April 2023 by e-mail to Prof. Dr.-Ing. Eckhard Quandt: eq@tf.uni-kiel.de