Ph.D. Position in the field of 'Plasma Discharges'

Job description:

KIT is one of the biggest research institutions worldwide and has access to state-of-the-art research facilities within the National Research Centre of the Helmholtz Association and the Technical University. The Light Technology Institute (LTI) plays a central role in the related research of Photonics and Solar cells. The department Lighting, Electronics and Plasma Technologies has research topics from UV to IR radiation, from plasma discharges to solid state radiators combined with research on electronic ballast to drive the radiation sources.

As a PhD Candidate you will be responsible for an experimental research project that deals with high and low pressure plasmas for UV radiation. The plasma parameters have to be characterized and optimized by means of spectroscopy. Application is reuse of water. This entails experimental and theoretical work for research projects, set-up of required equipment and development of relevant analytical methods. Execution of the research plan through conducting of experiments, sample and data analysis and write up of results for scientific publication are part of the PhD process – a journey to become an independent researcher. In addition, cooperation with internal and external partners, bachelor and master student supervision, oral presentations and contributions to teaching within the Faculty of Electrical Engineering and Information Technology are also part of the job.

Qualifications:

You have completed a diploma / master degree in Electrical Engineering/Physics or equivalent and have strong interest in research and experience with plasmas and measuring techniques. Organizing ability, good communication skills and very good English in spoken and written are required. Knowledge in German language is advantageous.

Salary:

Remuneration shall be based on the Collective Agreement for the Public Service Sector

Institute/Department: Light Technology Institute (LTI)

Starting date: As soon as possible

Application up to: 15.08.2015

Contact person:

Dr. Rainer Kling  rainer.kling@kit.edu
Internet: http://www.lti.kit.edu/

Please apply online in written form by e-mail directly to the contact person.

If qualified, handicapped applicants will be preferred.