

## **Open PhD / PostDoc position – photocatalytical materials and Mössbauer spectroscopy**

The Group of Materials for Electrical Engineering and Electronics in the Department of Electrical Engineering and Information Technology at TU Ilmenau, Germany, seeks a highly motivated PhD student or PostDoc to start as soon as possible in the area of Mössbauer spectroscopy and photocatalytical materials. The position is embedded within the Institute of Materials Science and Engineering and the Institute of Micro- and Nanotechnology MacroNano®.

The position is based on a 3-year research project “Development of an online/offline Mössbauer system for investigation of photocatalytical materials”, which is funded by BMBF. Based at TU Ilmenau, the candidate has often travel to ISOLDE (<http://isolde.web.cern.ch/>) in Geneva for experiments. The project is a group project together with the University of Göttingen, Germany, and University of Duisburg-Essen, Germany. Therefore, also travels to these places are required.

### **Job Description**

- Development of a mobile in-situ Mössbauer system for the investigation of photocatalytical materials
- Set-up of the in-situ Mössbauer system, maintaining and running the system
- Performing of experiments in Ilmenau, Göttingen and at ISOLDE
- Publication of research results in internationally recognized scientific journals and presentation of research results at conferences
- Assisting in writing research proposals and beam time proposals for ISOLDE

### **Qualifications**

- M.Sc. in Materials Science and Engineering, Physics, Chemistry or related fields
- Experience in Mössbauer methodology, system set-up, electronics, in-situ experiments
- Experience in photocatalytical materials
- Experience with radioactive isotopes
- Excellent English language skills, Knowledge of German language is a plus
- Soft skills (self-sustained working, working in a team, communication, enthusiasm, etc.).

### **Our Offer**

- 3 year contract, either towards a PhD degree or further PostDoc qualifications
- Further training and exchange opportunities.
- Competitive salary from 50% to 100% TV-L, E13 scale, depending upon qualification.
- Collaboration with University of Göttingen and University of Duisburg-Essen and the ISOLDE collaboration.

Please send your application with usual information (CV, M.Sc. record, B.Sc. record, eventually PhD certificate, letter of motivation, references) in electronic form (as a single PDF) as soon as possible, but until **June 26, 2016** the latest under identification tag “ISOLDE-Mössbauer” to [peter.schaaf@tu-ilmenau.de](mailto:peter.schaaf@tu-ilmenau.de).

For further information, all interested persons are encouraged to contact Univ.-Prof. Dr. Peter Schaaf (phone: +49-3677-69-3611, email: [peter.schaaf@tu-ilmenau.de](mailto:peter.schaaf@tu-ilmenau.de)) and see also the homepage at [www.tu-ilmenau.de/wet](http://www.tu-ilmenau.de/wet).