University of Stuttgart
Institut für Physikalische Chemie

Baden-Württemberg Stiftung
WIR STIFTEN ZUKUNFT

Postdoctoral Position

Spin Dynamics at Terahertz Frequencies

A postdoctoral position in THz frequency domain magnetic resonance spectroscopy is available starting immediately. This position in the group of Dr. Petr Neugebauer is funded by the prestigious Elite Program of the Baden Württemberg foundation. The project deals with development of ultra-fast frequency sweeps in frequency domain magnetic resonance spectroscopy to study the electron spin relaxation of thin films and bulk (crystals) materials such as single-molecule magnets, graphene and topological insulators. The outcomes of this project will further future technological applications in spintronics and quantum information processing. You will develop a novel method to access spin dynamic of bulk and surface materials at THz frequencies for the first time.

What we offer:

- State-of-the-art equipment, including a worldwide unique combine THz electron spin resonance and frequency domain magnetic resonance spectrometer, 35 GHz (Q-band) and 95 GHz (W-band) pulsed EPR spectrometers, SQUID magnetometer with ac capabilities and magnetic circular dichroism spectrometer.
- The opportunity to tackle an exciting contemporary and interdisciplinary topic.
- A vibrant international and interdisciplinary environment.
- Ample funding and international collaborations, including the possibility research stays abroad.

What we ask:

- Experience in electronics, programing, spectroscopy and THz techniques methods will be an advantage.
- Excellent teamworking skills, self-motivation, initiative and perseverance.

Salary: The salary will be 100% of TV-L E13 (starting approx. by 4400 EUR/month brutto, 2300 EUR/month netto).

Deadline: This position is open until filled

Applying: Candidates should apply by email to Dr. Petr Neugebauer (petr.neugebauer@ipc.uni-stuttgart.de). Applications should include a covering letter outlining the motivation for applying and a detailed curriculum vitae that states date of birth, education including thesis subjects, as well as the names and addresses of two academic referees. For more information, please contact Dr. Petr Neugebauer directly.