

Position of a Scientific Researcher (male / female)

Goethe University Frankfurt is one of the largest universities in Germany with approximately 46,000 students and 4,600 employees in 16 departments covering natural and life sciences, as well as the humanities and socio-economic sciences. Goethe University is committed to providing excellent conditions for academic teaching and research, as well as a continuous dialogue with society. The University's transformation into an autonomous Stiftungsuniversität (Foundation under public law) has helped make the University one of the leading research universities in Germany.

A PhD position is available in the Department of Physics at Goethe University Frankfurt/Main in the working group of Prof. Dr.-Ing. habil. Viktor Krozer:

Scientific Researcher (male / female)

(E13 TV-G-U, 100 %)

initially for the duration of two years. The time limitation of the research staff is governed by the rules of the Wissenschaftszeitvertragsgesetz in connection with the Hessian Higher Education Act.

The position is funded by the German Research Foundation in the project "Acoustic Communication in Dispersive Waveguides for Structural Health Monitoring Applications" and may start on 01 August 2017.

Goethe University advocates equality of women and men and therefore urges women to apply. People with disabilities are given priority in the case of equal qualifications.

Research topic:

The PhD candidate conducts research in the area of structural health monitoring with guided ultrasound waves. The focus here is on wireless acoustic communication between autonomous sensor nodes within a distributed sensor network. Finite element models are developed and validated using experimental methods. This research also addresses signal analysis and measurement technology.

Requirements

- A completed academic university degree: very good degree (M.Sc. or equivalent) in the fields of engineering, computer science or physics with a focus on communication and information technology
- Very good programming skills in the field of digital signal processing

- Knowledge in the area of wave propagation of guided ultrasonic waves as well as finite element methods are advantageous.

Interested applicants should submit meaningful application documents (motivation letter, CV, scientific publications) via E-Mail to Dr.-Ing. Jochen Moll, Physikalisches Institut, Goethe-University of Frankfurt am Main, Max-von-Laue-Str. 1, 60438 Frankfurt am Main, E-Mail: moll@physik.uni-frankfurt.de. **Application deadline: 01 July 2017**