

As an interdisciplinary research institute of the ETH Domain the Swiss Federal Laboratories for Materials Science and Technology conducts cutting-edge materials and technology research. Empa's R&D activities focus on meeting the requirements of industry and the needs of society. Through an efficient technology transfer Empa is turning research results into marketable innovations.

The Laboratory for Acoustics & Noise Control is the leading Swiss competence center in the field of acoustics and provides significant contributions on a technical and scientific level.

The Laboratory for Acoustics & Noise Control is looking for a motivated and committed

Post-Doc in the Field of Modeling Dynamic Material Properties

Your Tasks:

The proposed position is an integral part of an interdisciplinary research project with partners from academia and federal agencies in the field of multi-scale material and component development for railway infrastructure applications.

You will develop a finite element rheological model for non linear viscoelastic and/or hysteretic materials. The material model is validated based on rheological measurement data, and is subsequently used to simulate the structural dynamic response at a systems level.

Your Profile:

You must hold a PhD in Materials Science, Physics, Mechanics or similar. A high motivation to work in close collaboration with experimentalists and in international and multidisciplinary research teams are essential. Candidates with demonstrated research skills and excellent publication records will be considered. Written and spoken language skills in English are required. Knowledge of German would be an advantage.

We are offering a challenging position to a motivated personality in a modern research environment with excellent infrastructure. The position is offered on a fixed-term contract for a period of 2 years. Desired starting date is September 1st 2017.

For more information concerning the vacancy please contact Dr. Armin Zemp (armin.zemp@empa.ch), Group Leader Materials & Systems at the Laboratory for Acoustics & Noise Control or visit the webpage of the Laboratory for Acoustics & Noise Control: www.empa.ch/akustik

Please submit your application online and upload all documents ("pdf"-file is recommended) through this webpage. Any other way of applying will not be considered.