



DLR – DAAD Fellowships

Fellowship No. 505

Research Area : Transportation

Research Topic: **Digitalization and Industry 4.0-Technologies in the Field of Material Testing and Joining for Automotive Applications**

DLR Institute: Institute of Vehicle Concepts, DLR Stuttgart

Position: Postdoctoral Fellow

Openings: 1

Job Specification: DLR-Institute of Vehicle Concepts is offering a position for an engineer in computer science or software, mechanical or materials engineering. The department of Material and process applications for Road and Rail Vehicles is intensifying research on the detailed numerical analysis of available test data from the institutes testing devices. A special focus will be the test and analysis of innovative material solutions or mechanical multi-material joints, where parameters from two materials combined with a mechanical joint have to be taken into account. The objective is, to find software solutions and algorithms for deeper understanding of influencing test parameters and to utilize these algorithms in the future to predict material or joining properties with smaller number of required testing. The interested candidate ideally has finished his PhD in mechanical or materials engineering or in software engineering. A general understanding of different material properties and mechanical parameters is expected as a minimum requirement.

The postdoctoral candidate will work in the department of 'Material and Process Applications for Road and Rail Vehicles' in co-operation with other team members

Duration of the Fellowship: 24 Months

Required Qualification: Ph.D. in mechanical or software engineering, material or computer science with affinity and experience on software programming and data analysis

Advantageous Skills: Experience in material characterization, Experience in numerical simulation of material properties,

English competence: See requirements on www.daad.de/dlr

Earliest Start Date: 1st October 2022

Application Deadline: 31.12.2022

Further Information: <http://www.dlr.de>
<http://www.daad.de/dlr>