



DLR – DAAD Fellowships

Fellowship No. 454

Research Area : Transportation

Research Topic: **Method development of sensor set identification strategies for novel autonomous vehicle concepts**

DLR Institute: Institute of Vehicle Concepts (FK), DLR Stuttgart

Position: Postdoctoral Fellow

Openings: 1

Job Specification: A challenge in today's vehicle development is the design of a more fuel-efficient and safer vehicle. Besides replacing conventional drive train components with batteries, electric motors, power electronics, autonomous driving vehicles are seen as the next step to the future of mobility. An important challenge of autonomous vehicle concept development is sensor set definition and position identification, which fulfills the required high safety standards by reasonable costs. Within the offered research position sensor set identification strategies for new autonomous vehicle concepts have to be developed using virtual simulation platforms. The methodology should allow the direct evaluation of different sensor set definitions by assessing the virtual response on challenging traffic scenarios and weather conditions. The research position is for dedicated international scientists, who have recently finished their doctorate in a related research field.

Required Qualification: Doctorate in an engineering field (e.g. mechanical engineering, aerospace engineering) or natural sciences (e.g. mathematics, techno-mathematics, physics)

Advantageous Skills: Experience in vehicle design, optics and sensor modelling

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

Earliest Start Date: September 2020

Application Deadline: December 2020

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