



PhD position available

Wood cross- sections subjected to impact load

The Institute of Building Materials, Concrete Construction and Fire Safety (IBMB), Wood-based Materials Division at the TU Braunschweig has an opened PhD position in the area of wood under impact load. The successful candidate will work on the project "Development of a sustainable guardrail system". The focus will be on design, testing and analytical modeling of impact-loaded wood- and composite wood cross-sections, constitute equations, and vehicle-guardrail interaction. The experimental work will include material and connection tests, high - energy impact experiments and prototype design and full-scale vehicle impact experiments. This is a joint project between the TU Braunschweig and Fraunhofer WKI - a leading wood research organization in Germany.

Qualifications

- MS degree or equivalent in material science, civil, aerospace or mechanical engineering or equivalent from an accredited institution
- knowledge of wood as a construction material is desirable

The successful candidate is expected to work independently and communicate with research partners and staff. The candidates with basic or no German language skills will be required to attain the working knowledge of German within the first year of appointment. The Carolo-Wilhelmina University in Braunschweig is an equal-opportunity employer.

Additional information and applications

Interested candidates should send the motivation letter, CV, transcripts and names of at least three references to

Bo Kasal, PhD, PE
Professor and Head
fgo.ibmb@tu-bs.de

Application process starts immediately and applications will be accepted until suitable candidate is found.

Departmental web site

<https://www.http://www.ibmb.tu-braunschweig.de/index.php/fachgebiet-fgo.html>