

## Student Thesis



Bachelor / Master thesis

# Concept Development of a Clamping Device for NVH Investigations

## Topic and Goal of the Thesis

In order to assess the influence of new materials on NVH characteristics of a vehicle at an early stage of development, knowledge of the material damping depending on both, the temperature and the frequency, is important. These Material damping values are determined using various measuring methods and different test benches. Here, the clamping method of the material samples has a significant influence on the values determine. As part of this work, an optimized concept for the clamping of material samples in a test bench working according to the **Power-Injection-Method** is to be developed.

## Working Points

- Determination and description of the state of the art of clamping concepts for test samples
- Development of an optimized clamping concept
- Implementation and evaluation of the optimized clamping device

## Requirements

- Very good German and English language skills
- Reliability, commitment and enjoyment of working independently

## Department

Research Area Vehicle Dynamics & Acoustics

## Contact



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## Language

German or English

## Entry Date

Earliest possible date

## Prior knowledge

Automotive engineering & Vibration engineering helpful