

Acoustic Car Modelling Internship

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Company: Toyota Motor Europe

Location: Zaventem

Category: computer-and-mathematical

Your team and your responsibilities

Team/division description

TME R&D centre is responsible for planning, development and production support of vehicles aimed at - and locally produced for - the European market, and to support Toyota globally in the development of innovative technologies and methodologies.

The „Vehicle Comfort“ team is part of the Vehicle Performance Engineering division (VPE) and is responsible to develop the vehicle NVH (Noise, Vibration and harshness) according to European customer expectations. Using state-of-the-art experimental and numerical methods, we develop strategies to achieve the targets, and validate them on virtual and physical prototypes.

Your project

With the transition to hybrid and electric vehicles, European customer expectations towards interior quietness are further increasing. In this internship you will contribute to the development of virtual prediction models (among others “SEA”= statistical Energy Analysis) to simulate the 3D sound experience in the vehicle cabin, and to study how these models can be used in the optimisation of the cabin acoustic treatment and to support decisions related to the layout of the loudspeakers in the cabin. More specifically:

You will study different acoustic package proposals for a vehicle, and judge their performance for cabin interior quietness using a simulation model,

You will perform sensitivity studies, and optimise specific characteristics of the acoustic treatment to improve the interior sound cabin at lowest mass impact,

You will study different speaker layouts in a vehicle cabin and judge their performance for sound (music) creation using a simulation model,

You will perform acoustic testing in our anechoic room and on our test track, to measure the interior noise and speaker system performance using prototype samples, and use these results to improve and validate the simulation results.

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Your Profile

You are fluent in English (TME's business language)

You are pursuing your master's in mechanical or acoustical engineering,

You have a background in structural dynamics and acoustics; knowledge of Noise & Vibration testing and simulation is an important plus.

You are interested in cars and in sound/acoustics.

You have some affinity with mathematical and physical modelling, and scientific scripting in Python.

You are eager to work in a multi-cultural environment.

Place of employment

Belgium - Brussels (Zaventem): Toyota Motor Europe, Technical Centre

Starting date

September 2024

Duration

6 months

Confidentiality

Due to business requirement, not all performed projects can be reflected in the internship report. This issue needs to be discussed with candidate/school in advance.

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