

I19-07 – Intern in Model Based Development Vehicle Performance Engineering

Company general information

TOYOTA is one of the world's largest automobile manufacturers and a leading global corporation. Founded in 1937. Toyota now sells vehicles in 170 countries and employs over 300.000 people.

Based in Brussels, Belgium, and staffed by 2.700 people and more than 60 nationalities, Toyota Motor Europe (TME) handles the wholesale marketing of Toyota and Lexus vehicles, parts & accessories, and manages Toyota's European R&D, manufacturing and engineering operations.

Team/division description

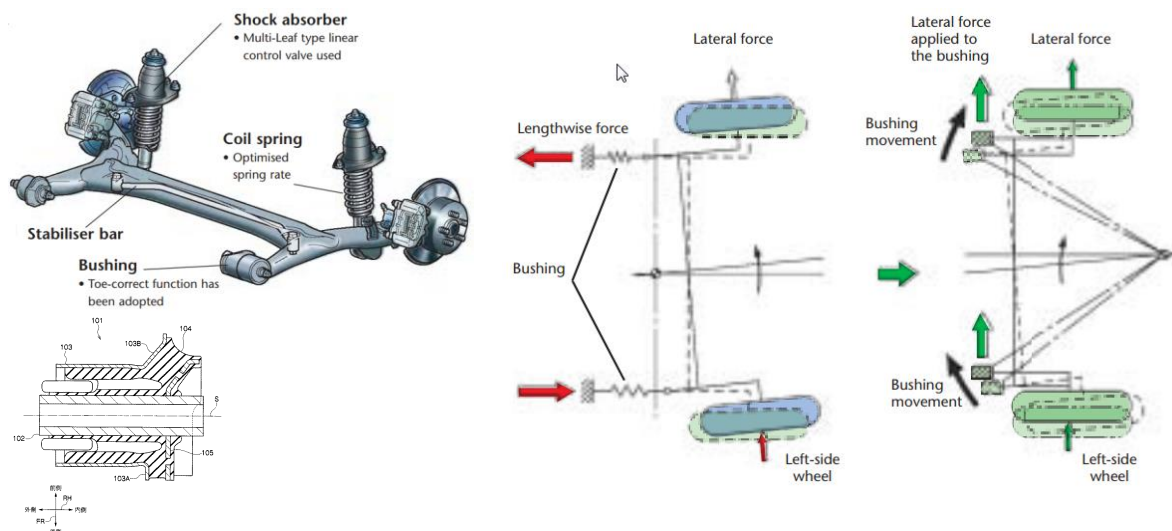
Vehicle Performance Engineering – Model Based Development

The VPE-MBD team within R&D has the role of providing simulation models and virtual evaluation tools to the specific vehicle dynamics performance teams (handling, ride comfort, drivability, brake control), as well as defining more advanced performance indicators to support vehicle project development target setting.

Your project

Develop a simulation model for anisotropic bushing behaviour

Your mission will be to develop and validate an efficient lumped parameters model for toe correct bushing. These are suspension elements that improve handling performance, but are not easy to implement efficiently in simulation models. You will use virtual and physical testing results to evaluate main toe correction effects; then, you will build up on the capabilities of a high end multibody software to improve simulation of such bushing behaviour.



Your profile

- Student in final year study of Master degree of engineering, with focus on simulation methodologies.
- Good command of Matlab scripting.
- Knowledge of vehicle and chassis system dynamics simulation packages (Carmaker/Amesim/Simpack/Adams) will be considered as an asset.
- Fluent in English.

Place of employment

Toyota Motor Europe Technical Center
Brussels, Belgium

Starting date: As soon as possible

Duration: max 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.

It is mandatory that applicants are students for the entire period of the internship. Interested in this internship, please apply online via www.toyotajobs.com.