

Internship – Fuel Cell Liquid Hydrogen Technology Research

www.toyotajobs.com ref I20-42

Company general information:

TOYOTA MOTOR EUROPE (TME) head office and R&D center are based near Brussels in Belgium. More than 2700 employees from more than 60 nationalities cover the entire European business of Toyota and Lexus, including R&D, product planning, quality, engineering and manufacturing operations in production plants across Europe. More than 1 million new vehicles are sold each year.

Division information:

As part of TME R&D organization, the Powertrain Division is responsible for research and development of fuel cell related technologies such as liquid hydrogen storage system.

Your project:

With increasing demand of zero emission technology in the automotive industry, fuel cell would play a crucial role in future powertrains. As a future storage system of hydrogen, liquid hydrogen storage system is expected. Your project is about investigating elemental technologies for liquid hydrogen storage system for future fuel cell projects such as liquid hydrogen tank, Cryogenic compressor, Boil-off management system, liquid level sensor and liquid hydrogen safety.

-Investigate detailed design features of liquid hydrogen storage system.

-Investigate the mechanism of behaviour of selected technology through simulation and modelling e.g. modelling of self-pressurization behaviour.

Your profile:

- University student with at least 2 yrs of study already completed.
- You have a European EEA citizenship. (not requiring a visum to work in Belgium)
- Open personality and able to work independently in a multi-cultural business environment.
- Fluent in English (reading; writing; speaking)
- Able to summarize and explain complex technical information in a clear and visual way.

Place of employment: Belgium – 1930 Zaventem (Brussels area)

Starting date: June 1st, 2020

Duration: 6 months

Confidentiality: Some of the project content may have to be treated as confidential and therefore not shown explicitly in the internship report.