AVL is the world's largest independent company for development of powertrains (combustion engines, hybrid systems, electric drive) as well as simulation and test systems for passenger cars, trucks and marine engines.

We offer a master thesis:

# Design of a physics based transmission rail control software

A physic based transmission rail control software shall be developed which provides a simple interface for calibration (Master Thesis).

**Task:**
- Studying the existing transmission rail control strategies.
- Defining the requirements against the physic based transmission rail control strategy.
- Developing the physic based transmission rail control software.
- Testing the software in the existing simulation environment.
- Documenting the results and the conclusions.

**Study:**
- Mechanical Engineering
- Electrical Engineering
- Control Engineering
- Physics

**Requirements:**
- Matlab/Simulink
- Physical Modeling
- Transmission Basics
- Control Theories
- Good English knowledge

Remuneration: The successful completion of the thesis is a one-time fee of EUR 2.200, - gross remuneration

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