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Subject:      **Job announcement Software Developer (Full time or Part-time)**

At the Institute for Internal Combustion Engines and Thermodynamics, research area Emissions, we are developing simulation tools to compute the emissions of vehicles. Our most prominent tool is VECTO, which we developed as contractor for the European Commission. VECTO is the official simulation tool of the European Commission for declaration of CO2 emissions from heavy-duty vehicles according to regulation (EU) 2017/2400 ([https://ec.europa.eu/clima/policies/transport/vehicles/vecto\\_en](https://ec.europa.eu/clima/policies/transport/vehicles/vecto_en)). Starting with 1.1.2019 the fuel consumption and CO2 emissions of almost every new heavy-duty vehicle sold in the European Union have to be computed using the VECTO simulation tool.

VECTO is currently being developed to include new technologies such as dual fuel vehicles, waste/exhaust heat recovery systems, advanced driver assistant systems, hybrid powertrain architectures, and to cover new vehicle groups such as buses and medium lorries.

The tasks include

- Implementation of simulation models for new vehicle components
- Development and adaptation of simulation methods for hybrid powertrain configurations
- Implementation and adaptation of graphical user interface
- Helpdesk support

Your profile:

- Very good programming skills
- Experience in software development in C# or Java
- Basic physical understanding
- Good written and spoken English knowledge

For more details on VECTO feel free to contact DI Dr. Markus Quaritsch  
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