*We create a better world by driving mobility trends of tomorrow.*

## Development Engineer Vehicle Function (f/m)
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*The world's largest independent company for development, simulation and testing of propulsion systems, operating in more than 30 countries with more than 10000 employees worldwide, opens its Croatian doors!*

**YOUR RESPONSIBILITIES:**
• Development of new and innovative functions for mechatronic vehicle systems (brakes, steering, torque vectoring, ESP, chassis)
• Development of dedicated plant models of mechatronic systems in MATLAB/Simulink
• Set-up and execution of combined vehicle and plant model simulations to derive functional requirements of vehicle functions
• Model-based design and development of vehicle controls, state machines and signal observers in MATLAB/Simulink for a wide variety of drive train and chassis architectures according to the specification
• Tight technical coordination with interdisciplinary experts of simulation, chassis, software development, FuSa, HiL testing, calibration, etc.
• Definition of test cases and acceptance criteria together with experts
• Validation of vehicle functions in MiL environment with vehicle simulation
• Participation in customer meetings and support in preparing offers

**YOUR PROFILE:**
• Engineering BSc or MSc in the field of Mechatronics, Electrical Engineering, Controls Engineering or comparable
• Knowledge in the field of model-based controls and observer development
• Sound knowledge of MATLAB/Simulink and controls development toolboxes is mandatory
• Experience with vehicle simulation and data evaluation with MATLAB/Simulink and/or Python
• Ideally development experience in the field of chassis, brakes, ESC, steering
• Ideally experience in the field of vehicle system simulation and driving dynamics
• Fluency in written and spoken English
• Willingness to Travel

**WE OFFER:**
• Contribution to projects of high technical & business complexity
• Modern technical challenges, e.g. autonomous driving software, electric motors, fuel cells…
• Full creative & professional freedom, no micromanagement
• Professional development through mentorship and trainings
• International teams and dynamic environment
• Very casual & friendly atmosphere

***AVL is not just about cars. It's about changing the future. Together.***
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