virtual vehicle

FIELDS OF ACTIVITY

ADVANCED TESTING

Providing applied sensing, analysis and validation
We guide our customers from the Real-World measurement problem to the solution

OUR KEY EXPERTISE & USP

- Problem analysis, development of new measurement methods, implementation of custom prototype solutions. Advanced Experiments utilizing the various labs and test bench infrastructure
- Augmentation and validation with in-house simulation expertise in FEM, CFD, Multiphysics and Co-Simulation

TASKS, METHODS & TOOLS

- **Infrastructure:** Battery Testing Center, Cooling Lab, Gas Lab, NVH Test Center, Climate Chambers
- **Standard Tools:** AVL (Puma, Lynx, XION), Siemens SimCenter TestLab, HEAD acoustics ArtemiS Suite
- **Data Acquisition:** DataBeam – software platform for easy fusion of heterogenous measurement sources
- **Data Analysis:** ViF tools (BattLOG, DataXplorer) for data management, analysis and validation

OUR SKILLS

- 40+ employees covering Expertise in the fields of:
- Battery – in all domains (health, abuse, thermal, …)
- Optics – particles, droplets, velocity, temperature, …
- Gas – emission and immission using spectroscopy
- NVH – comfort, degradation, acoustics
- Thermal testing – (HVAC-)systems and components

KEY PARTNERS (excerpt)

AVL, MAGNA, Volkswagen, BMW, Audi, SIEMENS, KREISEL, GREEN TESTING LAB, MANN+HUMMEL, KTM, OBRIST GROUP, Miba, bp, ÖBB, LIEBHERR, TU Graz, HyCentA, RWTH AACHEN UNIVERSITY

OUR OFFER …

- Design and develop verified solutions for your measurement problems
- Sensor and test bench prototype development
- Design of complex test setup and measurement campaigns (DOE – design of experiments)
- Data Management, Processing, Analysis and Validation
- In-house collaboration with simulation experts

… AND YOUR BENEFITS

- One-stop-shop from measurement problem to validated experimental results
- Broad Field of expertise allows cross-domain examination for multi-disciplinary problems
- Access to test bench and laboratory infrastructure
- Beyond state of the art applied research
- Attractive funding opportunities

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Find out more: