

Jonas Sjöberg (JS), professor, **Jonas Fredriksson** (JF), Associate professor, department of Signals and Systems, Chalmers University.

JS and JF have been involved in research and teaching concerning hybrid vehicles during the last decade. They have a general strong background in modeling, simulation and control. Together with the Swedish automotive industry companies and other Swedish universities they have been involved in national projects targeting research and education on hybrid vehicles. They have supervised several Ph.D. students on topics relating to design, sizing and control of electrical hybrids.

The projects include, building model libraries and a simulation tool useful for complete vehicle simulations as well as vehicle component studies for fuel cell and hybrid electric vehicles, developing control strategies for energy management of the on-board energy. Recently they have been involved in a research project related certification of heavy-duty hybrid vehicles where the focus was verification and quality assessment of simulation evaluation (HILS and SILS).

At the department, except JS and JF, there are some 5 more senior researchers with competence of modeling and simulating hybrid vehicles.

Further descriptions of ongoing projects and publications can be found on the department web:

<http://www.chalmers.se/s2/>

Commitment: We are not experts in certification. However, we are very interested to be part of projects concerning certification where we can contribute using our experience of modeling, simulation and validation of hybrid vehicles. Depending on the planned activities in the proposed project we could contribute within topics, 1, 2 and 3. Of course, this depends on which questions will be investigated using modeling and simulation. With the given deadlines, we can spent 12 months.