Life cycle analysis of CAKE product portfolio and system evaluation of light-electric   
off-road motorbikes for commuting

CAKE is a Swedish company in the category of light-electric off-road motorbikes with four bikes in its current product portfolio. CAKE has derived from passion for gravity sports and develops high quality performance products while saluting respect and sustainability. With development in electric drive trains, CAKE flips what motorbiking used to be and innovates the product category. CAKE’s purpose is to accelerate the journey towards a zero-emission society.

**The aim of this thesis** is to conduct a life cycle analysis of CAKE product portfolio. This will include life cycle analysis of the four products, including their production, logistics and sales etc. Furthermore, the aim of the thesis is to evaluate system level effects of light-electric motorbikes when used not only for leisure in off-road contexts but when also used for daily commuting.

**We seek students** with knowledge in system evaluation, environmental assessments and skills in life cycle analysis.

The thesis work is hosted by Integrated Transport Research Lab (ITRL) at KTH Royal Institute of Technology in close collaboration with CAKE. Depending on timing and results, you may also have the opportunity to write a scientific paper based on your work.

**Your application, including CV and a motivation letter, is welcome to** Mia Hesselgren – [miahes@kth.se](mailto:miahes@kth.se)

Applications will be evaluated continuously, so please submit your application as soon as possible.

**About Integrated Transport Research Lab - ITRL**

ITRL is a multidisciplinary and multi-stakeholder arena that brings together experts from various fields in order to contribute to the development of a sustainable transport system. The main research question is *How can new technology contribute to a sustainable transport system?ow How*

More information at: [www.itrl.kth.se](http://www.itrl.kth.se).