At the Chair of Logistics and Supply Chain Management of TUM School of Management we are looking for an interested and qualified students to conduct their

**Project Study**

on the topic:

**Data Processing and Analysis for Truck Platooning**

Autonomous driving systems allow a new mobility concept, the so-called *truck platooning*. Linking trucks into a train-like group can save fuel, fit more trucks on the road, and potentially improve safety. Although there is a growing body of Operations Research literature on the Truck Platooning Problem, there exists no numerical study with realistic data instances.

This project study consists of two parts. In the first part, the students will extract information from different sources that allows them to build a dataset, which includes a realistic highway network and real travel demand. In a second step, an optimization algorithm or simulation tool will be applied to this data set in order to gain key insights on influencing parameters and the value of platooning.

**Selected research tasks:**
- building a dataset
- optimize over the data or build a simulation
- performing a sensitivity analysis
- writing a report

**Requirements:**
The project study is for students of the study-program TUM-BWL. Qualified candidates have a major in Supply Chain Management. The ability to work independently as well as analytical skills are required. The students should be familiar with a linear solver (Fico Xpress, IBM Cplex or similar) or AnyLogic. Further programming skills (Java, C#, Matlab,...) can be helpful. The thesis will be written in English.

**Begin:** ongoing

**Advisor:** Szymon Albinski

**Application:** Email with curriculum vitae and transcripts of records to logtheses.wi@tum.de