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

**Interdisciplinary Project**

on the topic:

**Data Analytics and Visualization of Sales KPI's, Route Utilization and Revenue Development in Context of Logistics Industry**

TRANSPORT HEROES is an intuitive online price information and booking software for road based transportation. We provide forwarders who have a large effort in handling their spot prices, an instant, automated, and scalable 24/7 pricing and booking software (SaaS). With our solution, forwarders will be able to provide their customers an intuitive online shopping experience and reduce costs at the same time. With TRANSPORT HEROES, forwarders will be able to actively manage their sport prices to increase revenues or to optimize their capacity utilization. The goal is to generate correct and fast spot prices. The challenge is to fully automate the current manual spot price calculation and include individual customer pricing schemes. Besides this it is our aspiration to offer forwarders a function to dynamically adjust prices to a never seen extend. To give the forwarders insights about the utilization and the revenue on routes, a dynamic visualisation should be designed, developed and iterated based on client feedback.

**Selected research tasks:**

- Analyze the existing datasets
- Build MySQL queries based on our datasets
- Visualize the data with a suitable framework (d3, chartjs, google charts, …)
- Embed the visualisation into our frontend

**Requirements:**
The project is for students of the Bachelor’s and Master’s program of Informatics. Qualified candidates have knowledge in software development and are familiar with frontend technologies: Angular 2/4, CSS, SCSS, HTML, Javascript, JSON and should be able to write database queries in SQL (MySQL / MariaDB). The ability to work independently as well as in our highly motivated young team of logistics and IT experts. The assignment can be written in German or English.

**Begin:** Winter term 2017/2018

**Advisor:** tba

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