At the Chair of Logistics and Supply Chain Management of TUM School of Management we are looking for an interested and qualified student to conduct his/her

**Bachelor Thesis**

On the topic:  
**Review of the joint replenishment problem literature since 2005**

The Joint Replenishment Problem (JRP) deals with inventory control decisions for multiple products. The products have a coordinated cost structure whereby a major setup cost is incurred whenever anything is ordered, regardless of the number of different products and a product-specific minor setup cost is incurred whenever an individual product is ordered. Thus, by combining multiple products in one order, economies of scale can be achieved.


**Selected research tasks:**  
- Perform an extensive literature review of publications on the JRP since 2005  
- Implement two (or more) approaches  
- Perform a numerical analysis and compare approaches  
- Prepare a final report

**Requirements:**
This thesis is particularly suitable for candidates who have a strong interest in operations research, ideally have a major in supply chain management and have attended the course Modeling, Optimization and Simulation. The study report must be prepared in English.

**Begin:** from now on  
**Advisor:** Florian Taube  
**Application:** Email with curriculum vitae and transcripts of records to logtheses.wi@tum.de