

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

Master thesis

on the topic

Sustainable Supply Chains through Voluntary Certification and Regulatory Requirements

Sustainability along supply chains can take the form of adhering to mandatory requirements imposed by regulation (e.g., no child labor) or voluntarily engaging in improving sustainability (e.g., recycling quotas). However, it remains unclear how new regulation influences the design of certification standards and the engagement in (voluntary or mandatory) supply chain sustainability. In the thesis, this interaction should be analyzed with a game-theoretic model, investigating the problem from the perspective of different stakeholders.

Key project tasks:

- Literature review on relevant fields of study
- Design of a game-theoretic model
- Analysis of results and implications

Requirements:

The thesis is suitable for Master in Management and Technology students with a major in Operations and Supply Chain Management. The ability to work independently as well as analytical skills and abstract thinking are required. Knowledge of one general-purpose programming language (e.g., Python) is preferred just as knowledge of mathematical programming and optimization.

Earliest begin: as soon as possible

Supervisor: Alexander Bloemer

Application: Email with curriculum vitae and transcript of records to logtheses.log@mgt.tum.de