



Master thesis: “Production planning and scheduling – assessing feasibility and performance of an APS for German ‘Mittelstand’”



Camelot Management Consultants provides strategic and organizational consultancy services for value chain management, balancing strategy, process and IT competencies.

Value Chain Excellence. Strategy to Results.

A key topic for supply chain managers is production planning and scheduling which implies tremendous complexity with even basic material flows. Advanced planning systems’ (APS) optimization methods tackling that complexity often lack managers’ acceptance, especially in ‘Mittelstand’ firms. Implementing optimization methods and heuristics for production planning into a (pre-existing) Excel APS-like system could just bridge that gap. However, trading off feasibility and performance remains a key challenge of achieving such a project.

Your responsibilities:

- Review of previously designed models and approaches for production planning and evaluation of feasibility of current models
- Integration of existing models into pre-existing APS-like Excel tool:
 - Structured modification of APS logic
 - Measure the nervousness of the system in a rolling horizon
 - Compare different optimization models and heuristics regarding performance and speed
- Practical example with industry data (provided by Camelot)
- Quantitative analysis of results and qualitative discussion on the background of growingly important Lean practices

Your qualifications:

- You are at the end of your business studies (master) with above average results and intend to start with your master thesis shortly
- High interest in supply chain and logistics topics
- Knowledge in quantitative methods / operations research
- Proactive, persuasive, self-motivated with strong commitment to team work
- Good communication and presentation skills in English and German

Our offer:

- Challenging and innovative topic with high practical relevance
- Intensive and qualified supervision during the entire thesis
- Prospect of a permanent position after completing thesis
- Insights into the work of a leading consultancy
- Duration: 6 months
- Location: Cologne or Mannheim

Regina Lemmer
Camelot Management Consultants AG
 Theodor-Heuss-Anlage 12
 D - 68165 Mannheim
 +49 621 86298 470

career@camelot-mc.com
 www.camelot-mc.com