

4flow SE



4flow – das sind über 1000 Teammitglieder an 20+ Standorten weltweit. Wir sind einer der Marktführer im Bereich Logistikoftware und vereinen Logistikberatung, Logistiksoftware, 4PL-Leistungen und Logistikforschung in einem innovativen Geschäftsmodell. 4flow software ermöglicht mit seinem branchenübergreifenden Standardsoftwareprodukt 4flow vista® die Optimierung und Gestaltung von Unternehmensnetzwerken.

Thesis Student Supply Chain Science (d/f/m)

City: Berlin, Hamburg; Starting date (earliest): At the earliest possible; Duration: 6 months; Remuneration: 2400€

Working field

Our 4flow research team conducts exciting research projects, develops innovative digitalization solutions and creates market-relevant studies in the field of supply chain management and logistics.

Support us full-time as a Bachelor's or Master's student as part of your thesis project!

As a Bachelor's or Master's student:

You'll support the 4flow research team in application-oriented studies.

You'll work on scientific questions from data preparation and analysis to modeling, evaluation, and interpretation. Always in close collaboration with our experienced logistics researchers.

You'll process data from various sources and expert interviews and integrate them into a scalable analysis pipeline.

You'll implement models in Python (or similar) and evaluate their quality using established metrics.

You'll collaborate closely with our data scientists and logistics researchers, exchange ideas regularly and ensure a smooth knowledge transfer within the team.

Current thesis topics include:

Inventory Optimization in Multi-Tier Supply Chains

Reducing inventory can lead to significant cost savings. However, to ensure delivery reliability in volatile environments, inventory is essential at various stages of the supply chain. This topic focuses on developing and enhancing methods for holistic inventory optimization, considering uncertain lead and replenishment times. The goal is to ensure practical applicability by integrating diverse industry-specific characteristics.

AI-Driven Transparency in Inbound Supply Chains for Risk Management

Lack of visibility beyond Tier-1 suppliers makes inbound supply chains vulnerable to unforeseen risks and delays proactive action. This topic aims to develop an innovative ML/GenAI framework that automatically predicts geographic waypoints and transport modes, enabling data-driven insights to support inbound logistics management.

Model for Predicting Logistics Infrastructure Usage in Transportation

Limited transparency regarding logistics hubs used within supply chain routes leads to delayed risk detection and missed optimization opportunities. This topic involves developing an ML/GenAI framework that automatically predicts transshipment points and connections based on known origin-destination pairs, strengthening logistics planning through data-driven decision support.

Requirements

Why you belong at 4flow:

You're studying business informatics, business mathematics, logistics or a comparable field in a Bachelor's or Master's program with very good performance.

You're want to support us for 5-6 months as a Bachelor's or Master's student.

You have solid programming skills, e.g., in Python or R.

You've already gained some practical experience in logistics or supply chain management.

You're interested in logistics-related questions and enjoy scientific work.

You speak very good German and/or English.

What we offer

What we offer:

Flexible working hours that accommodate your schedule.

Food & Social Gatherings in Berlin: Snacks, drinks, and a weekly team breakfast

Learning: Personalized learning opportunities through a LinkedIn Learning account

Employee Assistance Program: Individual counseling for personal issues

Application

Ready for 4flow?

Then please apply online via our job portal:
https://careers.4flow.com/?utm_source=homepage&utm_medium=banner&utm_campaign=jobshop

More information at <https://stellenticket.de/198519/TUB/>
Offer visible until 22/11/25

