
also the combined end-to-end solution (e.g., synchronization of long-haul truck transportation with autonomous last mile deliveries from highway to local warehouses). Within these processes, we need to take into account the stochastic environment (congestion and uncertain arrival- and departure times) and varying degrees of dynamisms in planning (real-time, opportunistic, scheduled). Furthermore, we distinguish between centralized and decentralized planning approaches, which is especially meaningful when considering our end-to-end solution, as individual parts require different interfaces to work together effectively.

To assess the impact of the combined areas on the logistical performance, the PhD candidate can benefit from a library of simulation models that have been developed within our department for several related projects. The envisioned scientific contribution of the PhD dissertation is twofold:

the dynamic matching of trucks in a stochastic environment;
the end-to-end solution combining truck platooning and large truck combinations for the long haul with autonomous last mile logistics.

Job Requirements

A sound theoretical background in Operations Research, preferably combined with experience in simulation, data science, and machine learning, with an MSc degree in Industrial Engineering, Operations Research, Applied Mathematics, Computer Science, Information Systems or a comparable domain. We encourage ambitious candidates with strong communication skills who like to present their work at conferences and project meetings. Proficiency in English is required. You need to provide IELTS test results (minimum score 6.5), TOEFL-iBT (minimum score 90) or Cambridge CAE or CPE. An interview and a scientific presentation will be part of the selection procedure.

Salary and Benefits

We offer a 4-year full-time position as a PhD candidate appointed at the University of Twente (UT), with a qualifier after 1 year. In accordance with the Collective Labour Agreement for Dutch Universities (CAO NU) the gross monthly salary ranges from € 2,325 in the first year to € 2,972 in the fourth year. Additionally, the University of Twente provides excellent facilities for professional and personal development, a holiday allowance and an end-of-year bonus, and a number of additional benefits.

We are dedicated to encouraging a supportive and inclusive working culture. Our aim is that all job applicants are given equal opportunities. When we select candidates for employment, it will be on the

basis of their aptitude and ability. To support the workforce diversity, we are open to offer flexible working conditions on an individual basis to support work-life balance, that may include contract of employment, working hours and location, or child care.