

## Chair Supply Chain of the Future

Post-doc position available – 18 months

"Shared logistics": decarbonizing freight transport through the massification of logistics chains

The Chair Supply Chain of the Future of Ecole des Ponts-ParisTech is looking for a Post-doc researcher to conduct analyses on the decarbonization of freight transport through the consolidation of supply chains.

The decarbonization of logistics through consolidation and massification (e.g. switching from truck to train) implies a logic of volume and consolidation of freight flows. However, today, with the exception of containerized maritime transport, each logistics network is still assigned to a company, whether it is a shipper, a distributor or a freight operator. The objective of this research is to identify strategies for pooling and sharing logistics flows and the information and data that go with them, as well as the necessary tools, governance, value sharing management, obstacles, for the implementation of potential scenarios. The research requires freight flow modeling and the development of optimization scenarios. Real and/or fictitious case studies will be used. Part of the state of the art on the subject belongs to the research field on the "physical internet" which aims to standardize the coordination processes within the supply chain. Another part belongs to the analysis of the strategies of stakeholders (in particular the railway companies, the constraints inherent in the railway system and its governance) and the analysis of the challenges and potential obstacles to collective strategies in the implementation of corporate social responsibility. The topic of shared logistics transport can integrate strategic and operational aspects in terms of governance and processes, with the necessary academic and research insights and benchmarks. It may include a particular focus on a mode (e.g. intermodal rail-road transport or waterway transport), to be decided according to the post-doc' specific profile and interests.

The position is an 18-month contract and can start in January 2023 or later. It is based at the City, Mobility and Transport Laboratory (LVMT), which is common to Ecole des Ponts ParisTech and Gustave Eiffel University. The LVMT is located in Marne la Vallée (Seine-et-Marne, East of Paris) on the Cité Descartes campus, easily accessible by train A (Noisy-Champs station) from Paris city center.

The research activities of the Chair are part of a field, the Supply Chain and the transport of goods, which is evolving rapidly and which is attracting increasing interest from public and private actors, particularly since the recent pandemic and geopolitical upheavals as well as societal issues on climate change and corporate social responsibility. This position allows the constitution of an expertise on the decarbonization of logistics, which is still rare in the world of research and highly sought after in the corporate world.

The disciplinary background of the candidate sought is potentially diverse: PhD in management sciences, economics, operations research, transportation engineering, industrial engineering, environmental sciences with an interest in social sciences, but also in geography or urban planning but with an interest in engineering sciences. In all cases, he or she must be able to master the tools of carbon footprint calculation and transport flow modeling.

The candidate is able to participate in the day-to-day partnership with the Chair's corporate sponsors (Louis Vuitton, Michelin, Renault, Cdiscount/Casino), within the framework of various levels of interaction (contribution to events, field visits, preparation of student workshops, visits abroad).

Fluency in English is required, knowledge of French is an advantage.

For further information and application, please contact Philippe Wieser, Salima Haddour-Runacher and Laetitia Dablanc ([laetitia.dablanc@univ-eiffel.fr](mailto:laetitia.dablanc@univ-eiffel.fr)).

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