

**Postdoctoral position in OR: optimization of intermodal transportation systems
at LAMIH, UPHF (1 year, renewable)**

Title: Advanced Scheduled Service Network Design with Resource and Revenue Management

Advisors: I. Bilegan and D. Duvivier (UPHF, LAMIH UMR CNRS 8201), T.G. Crainic (UQAM, CIRRELT)

Location: Polytechnic University Hauts-de-France, Mont-Houy UPHF Campus, Valenciennes, France

Laboratory: LAMIH UMR CNRS 8201

Department: Computer Science (OR team)

Project/financial support: ELSAT 2020 by CISIT/ OLOGMAESTRO (for the first year)

Position: 1 year (renewable), immediately available; gross monthly wage 2700 €

Starting date: as soon as possible

To apply: CV, motivation letter, publication list, recommendation letters (*in a single .pdf file*), to be sent to postdocphd.applylamih@gmail.com.

Research topic and required skills:

The research topic will address modeling and solution techniques for solving advanced *Scheduled Service Network Design with Resource and Revenue Management* problems for intermodal (container) transportation networks, integrating demand or travel time uncertainties, as well as resource unavailability. Case studies issued from inland waterway transportation are to be explored. The researcher integrating the team should be holding a PhD with qualifications in **operational research** (mathematical programming, optimization methods and tools, ...) and strong abilities in **computer science** (programming languages, simulation). Experience in planning transportation systems, intermodality, synchromodality, or in stochastic programming would be a plus.

This research is part of an international collaboration between the LAMIH and the CIRRELT (Montréal, Canada), as per the International Associate Laboratory "Operational Research and Computer Science in Transportation, Mobility and Logistics" (LIA ROI-TML CNRS). In this context, research visits to the CIRRELT could be foreseen. *French language is not compulsory.*

If you think you are fit for this position, or for further details, feel free to contact us directly: ioana.bilegan, david.duvivier (uphf.fr), teodorgabriel.crainic (cirrelt.net).



The ELSAT2020 project is co-financed by the European Union with the European Regional Development Fund, the French state and the Hauts-de-France Region Council.