

## Your Opportunity

We are looking for a candidate that is an aspiring logistician with a technical interest. Likely you have studied engineering within logistics or have logistics as a specialization.

We are rapidly growing and are looking to expand both our team and our functionality. We are looking to expand and improve our functionality in the following areas.

- *Predicting picking cycle times.*
- *Slotting for pick locations.*
- *Dynamic assignment of gates and shipping locations.*

## About us

Through long term relationships we are helping solve complex logistics challenges for companies. One of our solutions is IMI WMS which is currently supporting a wide range of clients within Fast moving consumer goods, e-commerce, third party logistics and more.

### Predicting picking cycle times

This thesis determines which of the characteristics that we can use to describe a pick order, that are best suited for predicting its cycle time. As a part of the project, algorithms will be developed to be used across different warehouses throughout different industries. The strategies should identify either a strategy to determine cycle times or dynamically be able to choose between different strategies to predict correct cycle times.

### Slotting for pick locations

The aim for this thesis is to develop algorithms for determining reallocation of products picking locations. The aim of the algorithms should be to reduce the pick order cycle times while also considering factors such as congestions and the suitable picking order of products.

### Dynamic assignment of gates and shipping locations

This thesis aims to determine suitable gates for certain departures and trucks. This to increase the usage of preferred gates, while taking into considerations, practical limitations such as diverse types of vehicles and gates.

## Interested?

Apply through <https://career.im.se/jobs/2051471-master-thesis>. If you have any questions, please contact Sandra Karlsson at +46 702 80 30 13 or [sandra.karlsson@im.se](mailto:sandra.karlsson@im.se)