

# Overview challenges for students at Teqplay

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Thank you for your interest in an internship/graduation internship at Teqplay. We have listed exciting challenges for internships and graduation internships for [HBO/Applied Science students](#) and for [WO/University students](#) below.

Please take a look at our [website](#) for more information and send your application to [recruitment@teqplay.com](mailto:recruitment@teqplay.com) with the entry of the challenge(s) you're interested in.

## Challenges for HBO/Applied Sciences students

<b>Challenge:</b>	<b>Create a data driven report based on the vessels of specific companies or trade lanes.</b>
Subject:	Market research - data analysis
Assignment:	Based on a rich dataset of all global vessel movements globally you are going to create insights on the actual movements of vessels and fleets. Where are shipping lines sending their ships to? Are you able to spot differences in behavior? Can you derive interesting patterns? These insights will be the basis for the commercial activities of Teqplay.
Field of study:	HBO Business & IT Management
	HBO Logistics Engineering
	HBO Logistics management
Who:	Internship

<b>Challenge:</b>	<b>Create data driven insights on port and terminal congestion</b>
Subject:	Congestion
Assignment:	Congestion in ports is one of the important reasons for disruptions in the supply chain. To make the right decisions during the fixture (renting of a vessel) and operations (the port call and voyage) it is essential to have an understanding of the congestion. Congestion might be caused because of different reasons and is different for ports, terminals or vessels.
Field of study:	HBO Business & IT Management
	HBO Logistics Engineering
	HBO Logistics management
Who:	Internship

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## Challenges for WO/University students

<b>Challenge:</b>	<b>Develop an economic model for costs and risks in port calling</b>
Subject:	Cost model for port calling
Assignment:	In the transport of cargo the cost of the port call have a significant impact on the actual cost and risks. Eventually, this leads to higher costs of goods. The goal is to develop a model that provides insight in the exposure to cost and risk in a port call. The model will support the users with insight in the exposure on different types of cost involved, related to the time needed in the port call (potentially taking into account the probability of events).
Field of study:	WO/University Economics/Econometrics
Who:	Graduation Internship

<b>Challenge:</b>	<b>Develop a model for a feasible distribution of cost / benefits of Virtual Arrivals</b>
Subject:	Virtual Arrival
Assignment:	Virtual arrival is a hot topic in the maritime industry, in the current contracts the SFTW (Sail Fast Then Wait) behavior is strongly encouraged. However, what is needed to make terminals, shipping lines and others change this behavior and collaboratively plan Virtual Arrivals. In order to change the behavior it requires new contractual agreements, including the split of the savings/cost. In this research you will have a look at what has been researched and you are strongly invited to develop a model that encourages the behavior of virtual arrival for all parties involved.
Field of study:	WO/University Economics/Econometrics
	Master in Supply chain management
	Master Shipping & Transport
Who:	Graduation Internship

<b>Challenge:</b>	<b>Who pays for the new emissions regulations and who is at risk?</b>
Subject:	Emissions
Assignment:	New regulations to reduce greenhouse emissions have been introduced. The exact allocation of the emissions is not yet 100% decided upon. In this explorative research we are looking to understand the regulations and create a model that helps the actors to understand their exposure.
Field of study:	WO/University Economics/TBM-TIL
Who:	Graduation Internship

<b>Challenge:</b>	<b>Emission Breakdown (behavior, steps in the supply chain)</b>
Subject:	Emissions
Assignment:	Emissions heavily depend on the actual behavior of vessels. We have a database that provides insight in the actual behavior of vessels, on voyages and in port. We are looking for a model that supports the users in understanding the emissions in each of the steps of the process.
Field of study:	WO/University Economics/TBM-TIL
Who:	Graduation Internship

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