

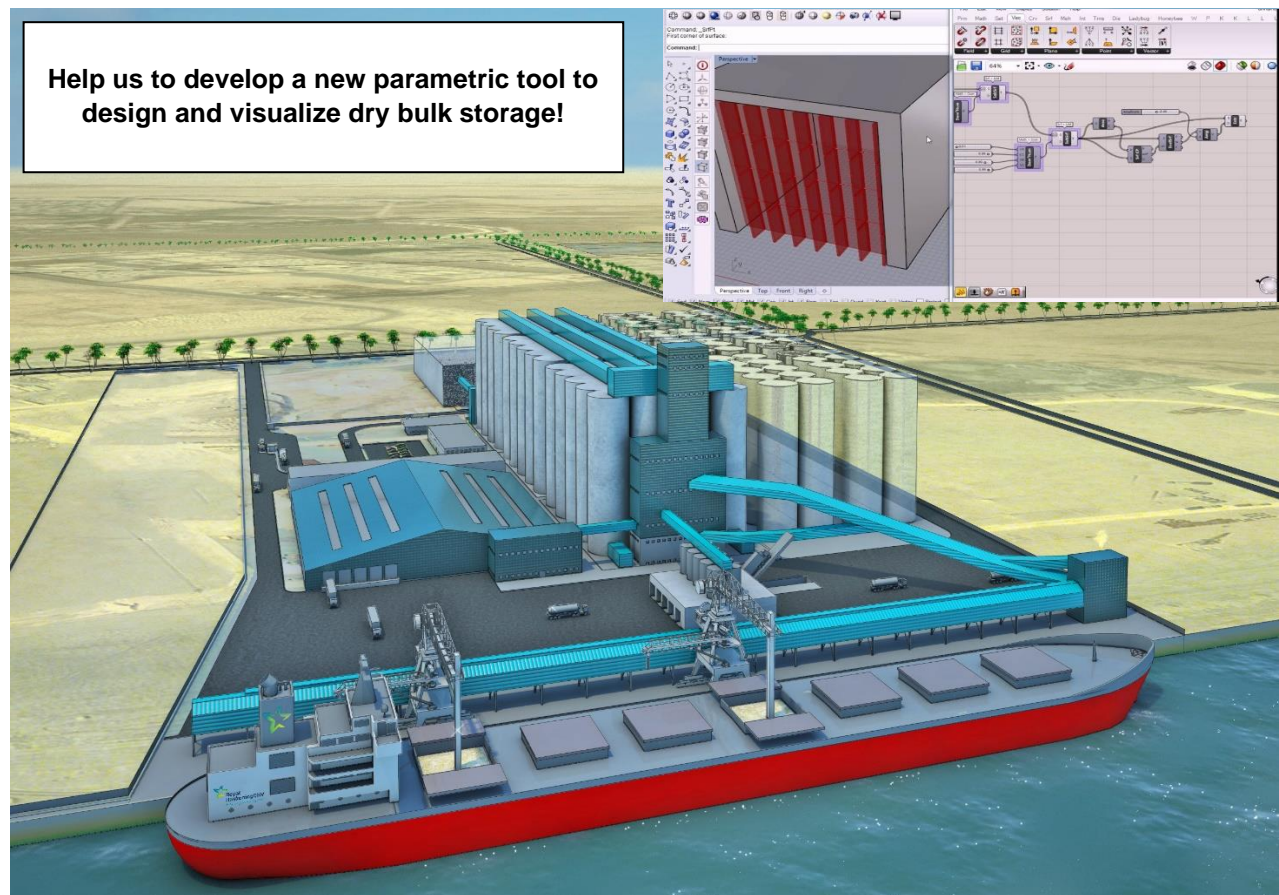
## Note / Memo

**HaskoningDHV Nederland B.V.**  
**Industry & Buildings**

Date: Wednesday, 05 May 2021

Advisory Group: Resources, Logistics & Power

Subject: Proposal internship – Development of a parametric tool to analyse and visualize storage for a dry bulk terminal



### Goal internship

This internship is aligned to RHDHV's strive for digital way of working and implementing new technologies to improve our approach for dry bulk handling projects. The project aims development of a parametric digital tool to design and visualise a dry bulk terminal during the Conceptual Design stage of a project.

The tool is intended to be used for selecting a storage facility, its sizing, analyse different intake and outtake equipment, its cost and, assisting in finding an optimal design. Depending on the type of a terminal and product handled (grain, fertilizer or iron ore), the storage configuration and equipment will vary.

At the end, the tool will be verified with the design of an existing dry bulk terminal that we Royal HaskoningDHV carried out recently.

The project will help you learn:

- to learn very wide range of dry bulk equipment
- to get to know how storage and equipment is selected for different type of terminals
- to get familiar with RHDHV and what type of projects RHDHV (Resources, Logistic & Power) does
- to work together with our technical experts
- to learn Grasshopper 3D

The tool will be developed in collaboration and under supervision with RHDHV technical.

### **Profile interns**

We are looking for a student who has:

- High grades during last 2 years
- Good programming skills in Python and data analysis
- Understanding of dry bulk handling
- Excellent analytical capabilities, independent and pragmatic
- Strong communication skills, good command of English
- Knowledge or willingness to learn Grasshopper 3D

### **Details internship**

Duration: 3-5 months full time

Supervision: Frank Stoop, Maria E. Zamiralova

Additional supervision will be provided by internal engineering departments, if needed

### **Are you interested?**

Please contact us:

Frank Stoop – Associate Director Resources Logistics & Power  
Rotterdam, NL

E: [Frank.Stoop@rhdhv.com](mailto:Frank.Stoop@rhdhv.com)

Maria E. Zamiralova, PhD – Dry bulk consultant, Resourced, Logistics & Power  
Rotterdam, NL

E: [Maria.Zamiralova@rhdhv.com](mailto:Maria.Zamiralova@rhdhv.com)