Delft, 27 November 2025

MSc Internship

Floating breakwater feasibility study for coastline protection in Curaçao

Company: Blue21
Start: January 2026 (exact date to be discussed)
Duration: 5–6 months | Internship | part-time or full-time

Co-design the next generation of coastal protection

Are you passionate about coastal engineering? Are you motivated to apply your skills to tackle real-world erosion challenges? Blue21 is developing an innovative floating breakwater system to protect nourished coastlines in a sustainable and nature-inclusive way.

We are looking for a driven MSc student to contribute to the hydrodynamic and morphodynamic modelling of this concept for the coastline of Curaçao, as part of a broader feasibility study. This is your chance to make a tangible impact while advancing your technical and professional expertise.

Your role

As part of our core modeling and analysis team, you will work alongside experienced engineers to:

- simulate wave attenuation performance of floating breakwater configurations using our in-house wave-structure interaction model
- investigate shoreline and sediment behavior under varying wave climates
- quantify the system's ability to retain nourishment sediment
- contribute to design optimization through scenario-based modeling
- support the integration of sediment transport processes into Blue21's hydrodynamic model

What you will gain

You will contribute to a pioneering coastal defense concept while developing highly relevant modelling skills. This internship offers:

- hands-on experience in wave–structure interaction modelling
- insight into innovative floating protection systems
- exposure to nature-inclusive engineering principles
- collaboration with coastal scientists, engineers, and ecological specialists
- involvement in a real implementation pathway with potential pilot deployment

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Who we are looking for

You are:

- MSc student in Hydraulic / Coastal / Civil engineering,
- interested in numerical modelling, sediment transport, and coastal morphology,
- analytical mindset and solution-oriented,
- enthusiastic about sustainable, long-term coastal resilient solutions.

Ready to shape the future of coastal engineering?

Send your CV + a brief motivation letter to:

hr@blue21.nl

If we think you can be a good fit, then we will invite you to our office for a coffee or a tea so we can have a chat and meet each other in real life.

We look forward to hearing from you!

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