

Vacancy

Simulation/ Computational Engineer - FEA and CFD

32 - 40 hrs/wk



Our purpose is to realise a more sustainable future. We believe that the mix of existing energy solutions for zero-emission is incomplete. So, we are developing the TidalKite, a revolutionary underwater kite that captures the steady energy of the tides.

It is our goal to make TidalKite a mainstream energy solution in ten years.

A bit of a moon shot, right? No. By then we have made it happen.

Driven by our strong perseverance and our solid commitment to foster and preserve our planet.

For our future generations. For good.

To achieve this mission, we are looking for a **Simulation/ Computational Engineer** with a strong affinity with cleantech and who wants to make a sustainable impact.

Your role

You will get a chance to work on challenging problems in a fast-paced environment. You will see the impact you make on the product development. Our collaborative company culture means that people are proactive and are not afraid to move fast and take intellectual risks. This brings us an opportunity to grow as a Team.

Your responsibilities include performing calculations, simulations and analysis to support concept development and detail design work from structural and flow performance point. Provide inputs for testing and perform design optimisation based on the results.

SeaCurrent

Six years ago, we started the development of an innovative system powered by the TidalKite - a scalable, safe, reliable, and eco-friendly energy solution - to make clean electricity available to millions of homes and businesses around the globe. We're now building our fourth model that we will demonstrate near Ameland. Our kite 'flies' perpendicular through the current, generating an enormous lifting force, which is transferred to a power-take-off system that converts it into electricity 365/24/7. One of the things that sets our technology apart is its wide deployment potential making it applicable for power generation on most locations throughout the world. The SeaCurrent team currently consists of 20+ highly skilled and purpose driven professionals.

For more information on SeaCurrent and the TidalKite, please visit our website www.seacurrent.com

What you will be doing

- Structural calculations and Finite Element Analysis (FEA) simulations for offshore structures
- CFD Analysis to optimize the flow performance
- Creating detailed technical reports on the results of simulations
- Calibrate models and calculations with test results and perform analysis to explain test results
- Participating in design reviews and making recommendations for improvements
- Collaborating with a team of engineers and naval architects to develop new designs and optimize existing ones

What we are looking for

- Preferably a relevant Master's degree in engineering (Naval architect, Computational engineering, Structural engineering, Civil, Aerospace) with minimally 2 years of experience in Simulations (FEA Structural analysis and/or CFD analysis) or a similar Bachelor's degree - with minimum 5 years of experience in Simulations (FEA Structural analysis and/or CFD analysis)
- Good Knowledge of FEA and CFD
- Excellent reporting skills and ability to communicate technical information effectively in English
- Proven Strong problem-solving skills and ability to work independently as well as in a team environment
- A person fueled by curiosity and eager to improve and sharpen his skill sets and knowledge continuously

Additional assets

- Knowledge of offshore industry practices and offshore structural design
- Knowledge of requirements from classification societies and offshore standards
- Auto desk Inventor and Nastran, Ansys workbench and Fluent or other CFD software
- Furthermore, we expect you to have a good understanding of the challenges of a fast-growing scale-up organisation. Our work is diverse, sometimes requiring us all to roll up our sleeves and get our hands dirty.

Do you like to join our adventure? Let us know! Send us your cover letter and resume (to: work@seacurrent.com) and we will contact you as soon as possible. For more information you can contact Maurits Alberda +31 (0)6 34861424.

Process

Job posting closes, **May 31, 2023**

Selection of interested candidates based upon cover letters and resumes, wk 22

First round of job interviews with interested candidates, wk 23

Second round of job interviews, wk 26

An assessment and/or assignment can be part of the procedure

Job offer, wk 28

Please note

This vacancy is not open to recruitment agencies. For direct candidates only.