The company - DeRegt

DeRegt is a high-tech cable manufacturer company, producing specialized cables for dynamic subsea applications. We operate in the seismic, ROV, renewable energy, aerostat and defence markets. Our office as well as manufacturing plant is located in the Netherlands in Krimpen aan de Lek, near Rotterdam.

Project description

Our cables are engineered using our proprietary Excel-based design software. This software calculates for mechanical, electrical, optical characteristics as well as costs, machine settings etc. After the design is finished it is the task of a design engineer to produce a 2D cross-sectional drawing. This is a tedious job and prone to human errors. Your objective is to automate this using Python, while also laying the foundation for automated electrical and thermal simulations using our COMSOL software.
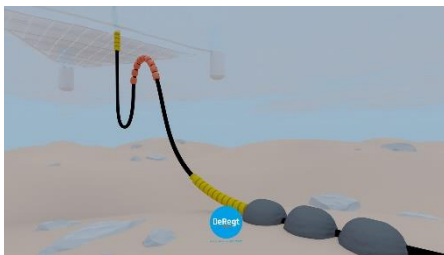

Figure 1: Dynamic cable in action for offshore solar energy.
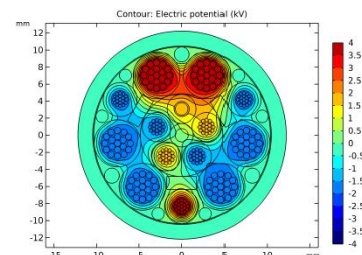
Figure 2: Cable cross section.

Figure 3: COMSOL simulation.

Your profile

- Master or bachelor student in Applied Mathematics or related field.
- Affinity with software as well as practical engineering disciplines.
- Ability to work autonomously, set project targets and ability to be a pioneer.

Our offer

- A challenging topic in which you are free to find your own way.
- Flexible work hours and ability to work partially from home.
- Possibility to make a great and tangible difference in our company.
- Monthly internship allowance of €500,- (BSc internship), €550,- (MSc internship) or €650,- (MSc graduation).

If you are interested or have any questions please contact Evert van Veldhuizen (R&D Manager at DeRegt), e.vanveldhuizen@deregtcables.com.

Cable Solutions