

## GEOTECHNICAL ENGINEERING INTERNSHIP AT FUGRO TOPIC: PLAXIS MONOPILE DESIGN TOOL (MODETO)

**Work location:** Nootdorp  
**Hours:** 40 hours a week  
**Duration:** 2-3 months, starting April 2018

Would you like to do an interesting internship with the world's leading offshore geotechnical company? Fugro can offer you this challenging opportunity.

### PROJECT AND INTERNSHIP TOPIC

The Pile Soil Analysis (PISA) joint industry project was started in 2013 with the purpose of improving the design of laterally loaded monopiles, which is the most common foundation type for offshore wind turbines. The outcome of this project was the proposal of a new enhanced design method for offshore wind monopile foundations. Together with Oxford University, Plaxis is developing a Monopile Design Tool (MoDeTo), which implements this new innovative design method (<https://www.plaxis.com/software/plaxis-modeto/>). Fugro is involved in the process by providing assistance and feedback from the perspective of an engineering firm acting as future user of the tool. Our main goal is to deliver one or more testcases illustrating how the use of MoDeTo can be incorporated within standard engineering practice and showing the likely benefits the industry can gain through implementation of the new design method.

During the internship you will be part of a team of Fugro geotechnical professionals working on the project. Together with your team you will continuously test and gain insight of the tool, perform engineering analyses, evaluate the results and finally compile all findings into a high quality technical note to be shared with Plaxis.

### POSITION REQUIREMENTS

- MSc student in Geotechnical Engineering, Civil Engineering, or Engineering Geology;
- Knowledge of and interest in soil investigation, soil mechanics and foundation engineering;
- Good communication skills in both oral and written English;
- Knowledge of Plaxis FEM software is considered a plus.

### FURTHER INFORMATION

Call Kostas Kaltekis: +31 6 55795759  
Or send your CV to: [k.kaltekis@fugro.com](mailto:k.kaltekis@fugro.com)

**Fugro Netherlands Marine B.V.** is a geotechnical engineering and site investigation company based in Nootdorp in the Netherlands and has approximately 200 employees. Our field of expertise consists of conducting soil investigations, site characterisation and providing geotechnical engineering and consultancy services for offshore projects like windfarms and oil and gas developments. We work internationally and cooperate closely with other Fugro companies and international clients.

