



We invite applications for a research project in the newly funded Collaborative Research Center (SFB) “Offshore Megastructures” (<https://www.isd.uni-hannover.de/de/institut/news/news-detailansicht/news/sonderforschungsbereich-1463-genehmigt/>),

Model development and simulation of fluid-structure-soil interaction for offshore megastructures

at the Institute of Hydromechanics and Environmental Physics in Engineering (ISU) in collaboration with the Ludwig Franzius Institute of Hydraulic, Estuarine and Coastal Engineering (LUFİ) at the Faculty of Civil Engineering and Geodetic Science, Leibniz Universität Hannover in Germany. The project addresses the modeling of scour at offshore megastructures. The process will be studied using a combination of numerical modeling and experimental studies in the wave channel of LUFİ. The position announced here will deal with the numerical modeling, but will also be involved in the experiments. The main goal is to study the scaling behavior of numerical models. For this purpose, scour development will be studied on models with different length scales and different structural complexity. The project is strongly coupled to a project at LUFİ on modelling and analysis of hydrodynamics of offshore-megastructures and interactions with the marine environment.

The position will be filled as soon as possible and will run for four years. Salary and benefits are according to a public service position in Germany (E13 TV-L). The position is planned as a qualifying position for a doctoral student.

We welcome applicants with a Master degree (or equivalent) in engineering, geodetic science, natural sciences or computer science. Good knowledge in fluid mechanics is needed. Good knowledge in numerical methods and programming skills are required. The ability for interdisciplinary and independent work is required. It is expected that candidates closely cooperate with other scientists in the project.

We offer a highly motivating environment and the ability to work independently. The institutions contributing to the project advocate gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference.

Address your application electronically to Prof. Dr. Insa Neuweiler (neuweiler@hydromech.uni-hannover.de). The position applications should include besides a CV and a publication list (if any) a short statement of motivation. The announcement will remain open until the position is filled.