Post-Doctoral Research Assistant

Division of Civil Engineering,
School of Engineering, Physics and Mathematics
University of Dundee

Ref. ASE0191

Summary of Job purpose and principal duties:

Applications are invited for the post of post-doctoral research assistant (2 positions available) on the EU-funded project "GeoWAVE: Geotechnical and mooring design solutions for the offshore renewable wave energy industry". This project seeks to develop novel mooring and foundation technologies for anchoring offshore wave energy converters (WECs) to the seabed. Particular attention will be paid to solutions which are economically attractive with reliable long-term performance to allow WECs to be deployed in large arrays (offshore wave farms) by 2020. The project brings together three European SMEs with expertise in WECs, mooring line systems and offshore anchors/foundations (Wavebob, Seaflex and Deep Sea Anchors, respectively), research teams with expertise in physical/numerical geotechnical modelling and physical/numerical fluid-structure interaction modelling (University of Dundee, University of Western Australia and University College Cork), and industrial representatives (Cathie Associates and Lloyd's Register).

At the University of Dundee, geotechnical centrifuge modelling and numerical modelling of offshore anchoring systems will be conducted. The successful applicant will principally develop procedures either for centrifuge modelling experiments or for numerically simulating the installation and in-service loading of anchorages (e.g. using dynamic finite element methods).

The successful applicant will likely also be involved with other elements of the project work. Each post is a full-time fixed-term appointment for 18 months and will be made at Grade 7, Point 29 (£29,249 per annum) for a candidate with a PhD.

Summary of skills, experience and qualifications:

Applicants should ideally hold a PhD in Civil Engineering (or be close to completion), ideally specialising in geotechnical engineering, or equivalent research experience. Prior experience in centrifuge modelling or numerical modelling would be advantageous.

Informal enquiries should be made to the Project Coordinator Dr Jonathan Knappett (+44 (0)1382 384345, j.a.knappett@dundee.ac.uk). To apply and for further details please visit our website: www.jobs.dundee.ac.uk

Closing date: **11th March 2013.**