Newcastle University PhD Studentship award

Title
Coupling dynamic effects of deep-sea mining system due to multi-factor induced loads from complex sea condition and engineering operations

Value of award
100% of International tuition fees paid

Number of awards
1

Start date and duration
September 2019 for 3 years

Application closing date
8th February 2019

Overview
We are seeking highly capable and self-motivated PhD candidates for a PhD project in offshore engineering, with application to deep-sea mining related hydro- and flow-structure interactive problems.

The mineral reservoir at deep seabed is plentiful and deep-sea mining will play an important role in future ocean exploitation activities. Deep-sea mining operation requires fully understanding of multiple loads induced by current flow, internal multi-phase flow and wave effect, and the responses of supporting platform and transportation risers. The aim of this project is to build an integrated method for predicting the dynamic system responses. The project may involve works on theoretical analysis, basin experiments and numerical modelling.

To be eligible for the PhD position you should be able to start your PhD no later than Sep 2019, and have a strong background in hydrodynamics and preferably offshore/ocean/coastal engineering.

Sponsor
Faculty of Science Agriculture and Engineering and Chinese Scholarship Council (CSC)

Name of supervisor(s)

Leading supervisor
Professor Zhiqiang Hu, School of Engineering, Newcastle University
https://www.ncl.ac.uk/engineering/staff/profile/zhiqianghu.html#background

Co-supervisors
Dr Yilin Gui; School of Engineering, Newcastle University
https://www.ncl.ac.uk/engineering/staff/profile/yilingui.html#background
Dr David Trodden; School of Engineering, Newcastle University
https://www.ncl.ac.uk/engineering/staff/profile/davidtrodden.html#background
Eligibility Criteria
The applicant must be a citizen and permanent resident of the People's Republic of China at the time of application. Both Bachelor’s and Master’s students will be considered.

How to apply
You must apply through the University’s online postgraduate application system. [Apply here.](#) To do this please ‘Create a new account’. All relevant fields marked with a red asterisk must to be completed.

The following information will help us to process your application. You will need to:

- Insert the programme code **8040F** in the programme of study section
- Select **PhD Civil Engineering (full time) - Civil Engineering (Environmental)** as the programme of study
- Insert the studentship code **CSC1812** in the studentship/partnership reference field
- Attach a covering letter and CV. The covering letter must state the title of the studentship, quote reference code **CSC1812** and state how your interests and experience relate to the project
- Attach degree transcripts and certificates and, if English is not your first language, a copy of your English language qualifications (e.g. IELTS).

Contact
Prospective candidates should contact Professor Zhiqiang Hu at [zhiqiang.hu@newcastle.ac.uk](mailto:zhiqiang.hu@newcastle.ac.uk) for additional information.