Job Title
Research Engineer

Project Title
“Analysis of High Voltage AC/DC Power Transmission together with Penetration of Renewables and Condition Monitoring and Fault Identification and Location in Subsea Power System Distribution Network”
(Funded by: Singapore Maritime Institute)

Job Description
The focus of the project includes HVAC/HVDC analyses for subsea power systems, investigation of penetration of renewable sources, fault studies in various subsea cables, mathematical modeling, reliability analysis and signal processing pertaining to the studies. It also investigates integration with renewable sources and condition-monitoring of subsea electrical equipment, to enhance efficiency and predictability.

Requirements
We seek motivated post-graduate candidates who are able to show a proven excellent record in research, and are ready to thrive in a dynamic, multicultural and multidisciplinary team. The successful candidate should demonstrate a track record of delivering component designs in the field of power systems and their power-electronic control. The candidate is also expected to be self-motivated, able to assist other research engineers or graduate students, and able to implement research ideas.
In particular, we seek a person with the following skills:

- Masters in Electrical Engineering with specialization in power-electronic control of power system components and transmission/distribution analysis, preferably for subsea power systems
- Relevant experience in the design, simulation and control of power system components
- Knowledge in sensors, transducers, DAQ systems, their assembly and customization
- Design Tools: MATLAB, Simulink/ETAP/PSCAD, DSP/dSPACE/Microcontroller and Altium PCB Designer
- Fluent verbal and written communication skills in English
- Strong analytical and conceptual abilities

Remuneration & Benefits
Gross monthly salary will be commensurate with qualifications and experience. Leave and medical benefits will be provided.

Term of Appointment
The appointment can commence immediately and will be initially for one year with the possibility for extension of an additional one year.

Contact Person
Interested candidates may send their detailed curriculum vitae with a covering letter explaining their current interests, background relevant to this project and NUS Personal Data Consent for Job Applicants to A/Prof. Sanjib Kumar Panda (eleskp@nus.edu.sg).

Application Deadline
Open till the position is filled.