Job Title: Research Engineer

Project Scope

“Renewable Energy Based Power Electronic Systems for Smart Grid Applications”
[SERIS, NUS]

Job Description

Academic and applied research involving design, development, modeling, simulation and experimental testing of power electronic converters for smart grid applications. Perform literature review, state-of-the-art analysis, modelling and simulation, experimental validation, writing reports and contribute to scientific papers/presentations.

Requirements

We seek motivated candidate with proven excellent academic and research record, who is ready to thrive in a dynamic, multicultural and multidisciplinary team.

- Masters in Electrical Engineering with specialization in power electronic control of power system components and transmission/distribution analysis, preferably for smart grid applications
- Experience in the relevant topic area including modelling, simulation and analysis of power systems with power converters and energy storage using commercial soft tools such as MATLAB/Plecs/PSim
- Practical experience in design, fabrication, control and testing of power electronic converters using DSP/dSPACE/Microcontroller/FPGA and Circuit design tool - Altium PCB Designer / Eagle
- Understanding of optimization algorithms and Good mathematical ability
- 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 up to additional two years.

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.