
Research Engineer Position in Intelligent Optimal Control of a Data-Center Cooling System

Applications are invited for the following position in a research project on the *Research, Development and Demonstration of a Highly Efficient Hybrid Cooling System for High Ambient Temperature Data Centre*.

Research Engineer

Period of employment: 01/09/2017 -- 30/09/2019

Scope and responsibilities

As part of a project team for the development of a data-center cooling system, the Research Engineer will be in charge of the design and implementation of an intelligent controller for optimizing the performance of the cooling system according to various operating conditions. The intelligent controller will utilize suitable machine-learning algorithms to generate control signals that lead to the desired performance of the data-center cooling system.

Qualification and experience

Applicants should possess a BEng or MEng/MSc in from a reputable university in Mechanical, Electrical, or Computer Engineering, preferably with a strong background and interest in Machine Learning. The following aspects are highly valued:

- Good knowledge and hands-on coding experience on the application of machine-learning algorithms.
- Good understanding of system control, heat transfer and fluid dynamics processes.
- Experience in software system design and embedded system implementation.
- Competence in scientific and technical writing.
- Ability to function well as part of a team, particularly in the communication of ideas.

Applications are to be submitted electronically to: Associate Professor **Peter C. Y. Chen** (mpechenp@nus.edu.sg) and Associate Professor **PS Lee** (mpelps@nus.edu.sg).

Please indicate in your CV your immigration status in Singapore.

Only shortlisted applicants will be notified. Remuneration will be very competitive, and commensurate with qualifications and experience.