Research Engineer Position

Applications are invited for the following position in the newly started project entitled: “A transformative polymer-based heat exchanger with a modular multi-core system of curved microfluidic channels utilizing the inherent dynamics of deán vortices (THERMIC)”, funded by the National Research Foundation under the Incentive for Innovative Research Scheme through the Environment and Water Industry Programme Office of the Public Utilities Board. This multi-disciplinary project will develop (utilizing leading-edge microsystem and microfluidic technologies) a novel energy recovery system, with a strong emphasis on the potential of its commercialization.

Research Engineer in Microchannel Heat Exchanger Prototype Development

Scope and responsibilities

The Research Engineer will integrate microfluidics and heat transfer techniques to develop a progressive series of proof-of-concept prototypes and to design and conduct experiments to evaluate their performance.

Qualification and experience

Applicants should possess a BEng or MEng/MSc from a reputable university, preferably with an emphasis on microsystem engineering involving fluid dynamics, heat transfer, and/or microfluidics. Experience in design and fabrication of microfluidic devices are specifically desirable.

Note: In addition to the requirements specified for the individual positions, positive personal qualities, such as the ability to take initiative and to work independently, and having a good attitude, strong interpersonal skills and commitment to deliver results, would be much valued.

*Applicants should also have a good grasp of the principles of Mechanical Engineering in general and have good written and verbal communication skills. The Research Engineer position offers a unique opportunity for successful candidate to pursue a PhD degree in NUS while under employment, with possible tuition-fee related financial support provided during the PhD candidature.

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).

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