JOB Opportunity

The Smart Buildings, Smart Cities and Internet of Things Lab @ NUS at the Department of Building, School of Design and Environment, NUS is seeking a highly experienced senior firmware and embedded / electronics engineer for a project related to smart buildings, energy efficiency and the internet of things. This individual will play a pivotal role in designing and developing IUoT devices related to building energy efficiency – electrical plug load, light, humidity, temperature. This individual will work closely with a small and dynamic group of engineers and technical research staff consisting of energy engineers, building automation specialists as well some undergraduate and graduate students.

1. Job Title : Senior Research Engineer

2. Closing date : May 31 2015

3. Skills :
   - System Integration, Device drivers, Board Support Packages, Networking stacks and algorithms.
   - Electronics / Firmware Engineer familiar with Home and Building Automation Products
   - Ability to identify, select different electronic components including ICs and design compact IoT sensor networking boards.
   - Designing embedded hardware and firmware/software including at Embedded C / RTOS level, sensors, microcontrollers, actuators, wired-wireless data communication ICs + networking stacks, algorithms, firmware, drivers including Flash memory.
   - Experience with Real Time Remote Energy Monitoring and Control including Power, Light, Humidity
   - Familiarity with Networking Protocols including Wireless (802.11x), IP4, IPv6, Zigbee, 802.15.4, TinyOS, PoE (Power Over Ethernet), USB and Ethernet Technologies.
   - Experience working with 3rd party board manufacturers / designers / prototype development companies
   - Technical Writing of Manuals and User Guides

4. Experience
   - 6 to 7 years of working as a firmware / embedded hardware and software design engineer in a startup and corporate environment with proven track record of successful projects and products.

5. Qualifications
   - Bachelors (prefer Masters) in Engineering with specialization in Electronics / Hardware / Networking.