Job Title  
Research Fellow

Project Title  
(Funded by: Energy Innovation Programme Office, National Research Foundation)

Job Description  
One of the focuses of this project is to design and develop software (reusable libraries, tools & Graphical User Interfaces (GUI)) for buildings management systems for real-time monitoring, control and optimization. The software should have versions for different platforms like computers or hand-held devices. The design must be user friendly and should handle large amount of data transferred in real-time. Design and development of a test-bed at Laboratory level for testing and evaluating the system is also a part of the project.

Requirements  
We seek motivated post-doctoral candidates who are able to show a proven excellent record in research, and are ready to thrive in a dynamic, multi-cultural and multi-disciplinary team. The successful candidate should demonstrate a track record of delivering novel designs in the field of software design, control and automation systems, and building management systems. The candidate is also expected to be self-motivated, able to supervise research engineers or MSc students, and able to propose research ideas. In particular we seek a person with the following skills:

- PhD in Electrical and Computer Engineering with specialization in Software Engineering / Control and Automation Systems / Communication Systems
- Relevant experience in the design, simulation, and implementation of user interfaces, database management, control systems, wired and wireless device networks.
- Knowledge in graphical design and experience with graphical tools like Photoshop, Flash, 3ds Max is preferred.
- Comfortable with different operating systems such as Windows, Linux, Android, iOS
- Experience of developing software in programming languages such as Java, Python, C/C++, JavaScript, PHP and markup languages such as HTML5/CSS and XML.
- Experience with database management systems like MySQL, SQLite, PostgreSQL, Cassandra
- Fluent verbal and written communications 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 an 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.