Post-doctoral Position in Time Series Analysis/Forecasting

Masdar Institute of Science and Technology, located in Abu Dhabi, United Arab Emirates (UAE), is a private, not-for-profit, independent, graduate-level, research-driven institute developed with the support and cooperation of Massachusetts Institute of Technology (MIT). The goal of the Institute is to develop, over a period of years, indigenous R&D capacity in Abu Dhabi, addressing issues of importance to the region in critical areas such as: renewable energy, sustainability, environment, water resources and microelectronics. The Institute offers graduate degree programs (MSc & PhD) in science and engineering disciplines with a focus on advanced energy and sustainable technologies (http://www.masdar.ac.ae and http://web.mit.edu/mit-tdp/www/).

Position: The project on "Advanced Load Forecasting for Smart Buildings" is looking for a post-doctoral researcher. The appointment is expected to start from July 1, 2012. The initial appointment will be for 1 year but it can be extended up to 3 years depending on the project's funding and the candidate's performance.

Package: A highly competitive non-taxable (there is "no" income tax in UAE) salary package (basic salary + housing allowance) of USD 70,000 to USD 75,000 per annum will be offered as well as provision of health insurance and an annual two-way flight ticket to the candidate's home country.

Selection criteria: The applicant should meet the following criteria:
- PhD in Computer Science, Computer Engineering, Information Technology, Mathematics, Statistics, or a related discipline from a reputable university. (Candidates who have submitted their PhD thesis are also welcome.)
- Familiar with at least one of the following topics: forecasting, time series data analysis, time series data management, and machine learning.
- Good research experience and published at least 3 full research papers (excluding posters) in good international conferences/journals.
- Self-motivated and able to work independently.
- Strong programming skills in at least one of the following languages: C/C++, C#, Java, MATLAB, or R.

How to apply: Interested candidates should send their resume with a recent photo **and** statement about present/past research (not more than 1 page) to Dr. Zeyar Aung (email: zaung@masdar.ac.ae). Initial screening of applications will begin immediately and the positions will remain open until filled.

About the project: The project is about "Advanced Load Forecasting for Smart Buildings". Load forecasting is an important and integral aspect for smart buildings. Ability to predict the future electricity and/or thermal load of a smart building as accurately as possible can make the building more economical, sustainable, and greener. In this project, we propose to study the problem of smart building load forecasting in depth and to develop basic, dynamic, and comprehensive load forecasting models at different phases of the project.