Research Engineer/Research Associate/Research Fellow

Company Name
National University of Singapore, Dept of Electrical & Computer Engineering

Job Description
To work on the research and development of for a FSTD-supported project on advanced spacecraft control design using Control Momentum Gyrosopes (CMG). In this project, a position is available to work on the modelling, simulation and analysis of the CMG controlled spacecraft to achieve high agility 3 axis attitude control.

Responsibilities include:
- Evaluation of the various types of CMG systems for small satellite applications.
- Analysis and dynamic modelling of CMG-controlled satellite system.
- General digital simulation framework for comparing the performance of different CMG control schemes.
- Safe-hold mode concepts for CMG-controlled satellite will be examined and proposed.
- Documentation of design and results.

Requirements
Experience/skill requirements:
- Strong background in
  - Dynamic Modelling of systems, Control Systems Design & Simulation
- Working knowledge and/or experience in one or more areas of:
  - Matlab and Simulink
  - C/C++ programming

Qualification requirements:
Possess at least a B.Eng./M.Eng./Ph.D. Degree in Electrical/Electronic Engineering or Electrical and Computer Engineering from a reputable university, with specialization or demonstrated capabilities in the area of Dynamics and Control.

Remuneration & Benefits
The remuneration package will be based on the applicant’s educational qualification, background, and relevant work experience.

Term of Appointment
The appointment will be initially for 2.5 year, extendable for another 1 year subject to work performance.

Contact Person
Interested candidates shall send their detailed curriculum vitae and the NUS Personal Data Consent for Job Applicants to Professor Goh Cher Hiang (elegch@nus.edu.sg)

Application Deadline
11 Nov 2014