Research Assistant

Opportunities
The candidate will work at the Centre for Advanced 2D Materials (CA2DM) at the National University of Singapore (NUS). The research assistant will be working in a highly international environment with state-of-the-art equipment and facilities.

Job Description
The research assistant will be working in:

- Study mechanical properties of fiber reinforced composites, prepgs, and laminates
- Design procedures, processing routes, and report results
- Development of industrialization strategy
- Laboratory environment within a team of other researchers

Eligibility and Conditions
Candidates must hold minimally an internationally-recognized Bachelor’s degree, preferably in Mechanical Engineering, Chemical Engineering, or Materials Science, or equivalent. Additionally, the candidate should have:

- Experience in fabrication of composite materials using various fibre materials: glass fibre, carbon fibre, aramids and other polymer fibres
- Experience in mechanical testing of samples according to ASTM standards: Ultimate tensile strength, impact resistance, fracture resistance, ballistic properties
- Good understanding of production methods used in fibre reinforced composites: wet lay-up, spray lay-up, resin transfer molding, etc
- Working knowledge of components of composite materials: epoxy resins, vinyl and polyester resins, plasticizers, catalysts, and processing aids
- Strong knowledge of analytical tools (TEM, SEM, TGA, DSC, XPS, XRD, AFM, QMS)

The position is for one year contract with possible extensions for two or more. The salary depends on the previous experience and academic degrees.

The selected candidate will be required to work from 9am to 6pm (Mondays to Fridays), including one hour for lunch.

Application Procedure
The formal application should be submitted by e-mail to: sergio@nus.edu.sg

E-mail submissions must include:
- Cover letter
- Curriculum Vitae
- Three recommendation letters

Potential candidates will be contacted and invited for an interview.