Research Assistant
Centre for Advanced 2D Materials - Industrial Development Laboratory

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

Job Description
The researcher will work:
- Studying the composition, structure, surface modification, and properties of carbon-based materials
- Processing and characterising polymer nanocomposites
- Modifying the structure of materials by thermal, chemical and mechanical processes
- Designing procedures and processing routes
- Preparing technical reports
- Evaluating industrialisation strategies and market prospects
- In a laboratory environment within a team of multidisciplinary researchers

Eligibility and Conditions
Candidates must hold an internationally recognised Bachelor’s degree, preferably in polymer, mechanical, chemical, material science or engineering, or equivalent. Additionally, the candidate should be/have:
- Accountable for technical deliverables and milestones according to agreed timelines
- Self-motivated to study and to achieve the proposed goals
- Able to troubleshooting and root cause analysis
- Intellectual curiosity and desire to learn
- Technical depth, critical thinking, and good communication skills

It is a bonus if the candidate have:
- Knowledge and experience on physicochemical modifications of particulates
- Knowledge of industrial transformation processes and composites applications
- Strong knowledge and experience in analytical techniques (e.g. TEM, SEM, FTIR, TGA, DSC, XPS, DRX, AFM, QMS, CHNS, ICP, and Raman)
- Previous experience working with carbon-based materials
- Previous experience working in an industrial environment

The position is for one year under contract with possible extensions for two or more. The salary depends on previous experience and the academic degree based on NUS policies. The work shift is from 9 am to 6 pm (Mondays to Fridays) with one hour break for lunch.
**Application Procedure**

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

Potential candidates will be contacted and invited for an interview.

E-mail submissions must include:

- Cover letter
- Curriculum Vitae

Three recommendation letters will be requested after interviews.