

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). 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, properties, and preparation of carbon-based materials
- Characterising particulate 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 other researchers

Eligibility and Conditions

Candidates must hold minimally an internationally recognised Bachelor's degree, preferably in chemistry, physics, material engineer or equivalent. Additionally, the candidate should 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 is preferred or in an industrial environment

The position is for one year 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

E-mail submissions must include:

- Cover letter
- Curriculum Vitae
- Three recommendation letters

Potential candidates will be contacted and invited for an interview.