Research Fellow for 2D Amorphous Materials

We are looking for a passionate, self-motivated, and ambitious team member who shares our vision for the emerging field of 2D amorphous materials pioneered by our group. Our team has recently discovered the world's first free standing one-atom-thick amorphous material, a freestanding monolayer amorphous carbon (MAC). (*Nature, 577(7789), 199-203, 2020*). This discovery has not only answered the decades-old open-question about atomic arrangement in amorphous solids, but also revealed a plethora of potential applications including nanoelectronics, energy storage, proton membranes, catalysis, and many more.

The project aims at creating fundamentally new 2D materials with material compositions that do not have stable crystalline counterparts. This becomes possible because in unlike 2D crystals, in 2D amorphous materials the bond angles and bond lengths can have a wide distribution. Such novel materials are predicted to have exciting novel properties and provides ammple opportunity to both make fundamental discoveries and collaborate with industry.

You will be part of a friendly and ambitious team in a stimulating international environment and can take advantage of the state-of-the-art clean room facilities at CA2DM. You will be provided with a competitive salary package.

Qualifications / Discipline:

Candidates should hold a PhD in Physics, Material Science, Nanoscience and Nanotechnology, Electrical or Chemical Engineering, or related disciplines.

Skills:

- Proven track record of excellence in experimental research.
- Background in 2D materials synthesis and characterization is a plus.
- A detailed understanding of the key technologies involved is a plus.
- You are a true team player, you thrive in fast-paced and agile environment, you enjoy working internationally.
- Sense of ownership and pride in your performance and its impact on team's success.
- You have great interpersonal and communication skills, and you are excited by challenges.

Experience:

Preferably with relevant background experience in experimental research with 2D materials.

Application:

Applications should be written in English and emailed to Prof Barbaros Oezyilmaz at barbaros@nus.edu.sg.

The application should include cover letter, CV with publication list and contact information for at least 2 referees.

Early submission is encouraged as applications are processed immediately. The positions will remain open until filled.