Research Fellow

Who are we?

We are the University of Cambridge presence in Singapore called Cambridge CARES, sponsored by the NRF CREATE program CAM.CREATE. In the new research initiative of NRF we are participating in a joint research project with the University of Berkeley’s presence in Singapore, BEARS. The research programme “A table top chemical factory for the reduction of CO\textsubscript{2} to chemicals” is a joint CARES, BEARS, NUS and NTU activity.

Our team is comprised of world-class scientists and engineers working in a vibrant, fast-paced environment with great opportunities for knowledge and skills development.

Who are we looking for?

We are looking to fill a vacancy of a research fellow to work on separation of the products of the electrochemical CO\textsubscript{2} conversion. The target products are ethylene, ethanol and 1-propanol from the two different versions of the process, leading to several solutions. The separation may also be linked to downstream conversion as a reactive separation technology. The separation process would need to be implemented in a miniplant, integrated with the electrocatalytic reaction, for which the existing adsorption mini-plant could be used. The project is expected to deliver both, high quality publications and patentable solutions.

What skills do you have?

You would have a background in chemical engineering at PhD level, with working knowledge of thermodynamics, and separation processes. Ideally you would have practical experience in developing adsorption and membrane separation processes and have an interest in separation science. You may also have experience in both, experimental catalytic reaction engineering and thermodynamics, or reactive separations.

When is position available and for how long?

The position is available immediately as a fixed-term contract with the end-date of 31 December 2020. The position will be offered subject to probationary period of six months.

What can we offer you?

- A stimulating working-environment with friendly, highly motivated colleagues.
- Opportunities to develop and implement new ideas in a creative environment.
- Opportunity to develop high-profile publications and learn from international research leaders.
- A competitive salary in line with your skills and experience.
- A one-year contract in the first instance, extendable following satisfactory performance.
- A comprehensive medical insurance cover as part of your employment.

Please note this post is mainly based in the CREATE Tower at NUS University Town, Singapore and is likely to be suitable for recent graduates.

How to apply?

Please send your CV and cover letter (summarizing the most relevant skills and experience that you have for the position) to

cares@hermes.cam.ac.uk