

## **Research Fellow / Research Scientist**

### **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<sub>2</sub> 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, goal-oriented 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 / research scientist to work on optimization of the method of fabrication of gas diffusion electrodes (GDEs) GDEs for the electrochemical conversion of CO<sub>2</sub> to C2-C3 products. This work will involve developing the suitable fabrication methodology, design of experiment (DoE) for optimization of the GDE structure, and scaling the fabrication to 10 cm x 10 cm electrode size. The work also involves coordination of other researchers in the project who are involved in: (i) synthesis and testing of catalytic materials, (ii) testing of GDEs in time-resolved experiments and (iii) building the scaled-up electrochemical system.

### **What skills do you have?**

You would have background in material science and chemistry to PhD level, with significant practical experience of materials development and fabrication. You would have experience in thin film deposition, characterization and testing techniques, and good knowledge of heterogeneous catalysis.

### **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.
- 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.

### **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](mailto:cares@hermes.cam.ac.uk)