

## **Software Developer**

### **Who are we?**

We are the University of Cambridge presence in Singapore called Cambridge CARES, sponsored by the NRF CREATE program CAM.CREATE. The research programme Cambridge Centre for Carbon Reduction in Chemical Technology (C4T) is a joint Cambridge, NTU and NUS research activity within Cambridge CARES.

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 for a talented and creative software developer to support the C4T research team. Primarily, we are looking for an individual dedicated to data-driven modelling, semantic representation and visualisation of chemical processes and industrial networks of an industrial park.

The project aims at a comprehensive virtualisation of an industrial park, i.e. a hierarchical representation of data and models associated with every entity in the industrial park, in order to exploit synergies for resource, energy, and emissions savings. The overall goal is, using ideas from Industry 4.0, Internet of Things, the Semantic Web, machine learning, artificial intelligence and statistics, to create an expert system capable of providing quantitative decision support.

The successful candidate will be expected to:

- build data models; especially semantic data models
- develop web-based data visualization tools alongside with GIS, BIM and other platforms;
- develop both front-end and back-end systems;
- big data handling;
- perform data extraction, analysis and integration of data;
- participate in research discussions with local industries and partners, and overseas universities;
- AI applications

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

- A good bachelor degree in Computer Science, Software Engineering or any other relevant majors, ideally involving data visualization or/and semantic technologies
- Java/Python/Javascript programming experience.
- An understanding of the software development lifecycle & design patterns.
- Well organized and able to deliver to deadlines in a dynamic environment.
- Able to communicate complex technical concepts to non-technical stakeholders.
- Excellent oral and written communication skills in English.

### **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 a satisfactory performance.
- A comprehensive medical insurance coverage 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 apply by uploading your CV and academic transcript to <https://talent.sage.hr/jobs/4819a078-5226-462d-a423-b7a771f65d77>. If you have any questions, please feel free to reach out to the HR team at [recruitment@cares.cam.ac.uk](mailto:recruitment@cares.cam.ac.uk).