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CARES

CAMBRIDGE CENTRE
FOR ADVANCED RESEARCH AND
EDUCATION IN SINGAPORE LTD.

Internship: The World Avatar Project

Chemical engineering/modelling background

Who are we?

We are the University of Cambridge's presence in Singapore, Cambridge CARES. Our activities are sponsored by the National Research Foundation's CREATE programme. 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.

Project description

The World Avatar project intends to capture the idea of representing every aspect of the real world in a digital "avatar" world. One of the aspects is to develop a comprehensive virtualisation of industrial operations, in order to exploit synergies for resource, energy and emissions savings. The intern will work with an interdisciplinary and multi-national team, comprised of researchers from around the world e.g. Britain, China, Finland, India and Poland. The core responsibilities and primary functions of the intern include:

1. collecting information and data of industries in Singapore;
2. developing mathematical systems/models for the chemical industry and utilities companies;
3. creating semantic representations of data, models and algorithms.

Prerequisites

The applicant should ideally have some understanding of chemical process modelling tools such as Aspen or HYSYS and process flow diagrams.

Keywords

Semantics, Dynamic knowledge graph, Digital Twin, Interoperability, Artificial Intelligence

How to apply

Please apply by uploading your CV and academic transcript to <https://talent.sage.hr/jobs/e59bdbf1-5762-4bac-92e1-d485ff308752>. If you have any questions, please feel free to reach out to the HR team at recruitment@cares.cam.ac.uk.