



Senior Research Assistant / Research Assistant I (holding the functional title of Data Engineer)

Ref.: 512547

Work type: Full-time

Department: Faculty of Social Sciences (30000)

Categories: Research Support Staff

Senior Research Assistant / Research Assistant I (holding the functional title of Data Engineer) in the Centre for Water Technology and Policy of the Faculty of Social Sciences (Ref.: 512547) (to commence on September 1, 2022 for one year, with the possibility of renewal subject to satisfactory performance and funding availability)

The Faculty of Engineering and the Faculty of Social Sciences, in collaboration, have jointly established the Centre for Water Technology and Policy to conduct cutting-edge research on water science, technology and policy issues relating to the broader urban sustainability agenda. The Centre is dedicated to pursuing excellence in research and teaching on water policy-technology interface issues, and to reaching out to the larger community to stimulate discussion on salient research findings.

Applicants should possess a Master's degree in engineering or data science-related disciplines. Applicants who possess a Bachelor's degree in the aforementioned disciplines with relevant project and/or internship experience are welcomed to apply for Research Assistant I. They should have solid knowledge of Python programming, machine learning concepts (e.g., SVM, CNN, etc.) and frameworks (e.g., PyTorch, TensorFlow, etc.), SQL and non-relational database systems (e.g., MongoDB, PostgreSQL, etc.). They should be familiar with Linux operating system, Bash scripting, and Git workflow. Prior experience in deploying machine learning models to production environment would be an advantage.

The appointee will work on a multi-year interdisciplinary project that makes use of cutting-edge Artificial Intelligence (AI) and Internet of Things (IoT) technologies to study residential water usage and water conservation policy in Hong Kong. The project is being undertaken by a team of researchers drawn from the Faculties of Engineering and Social Sciences at HKU. He/She will (i) build and maintain cloud and on-premise data pipelines; (ii) integrate

machine learning models from cutting-edge research into AIoT systems; (iii) perform data cleaning, visualization, and reporting tasks; (iv) write testable and maintainable code; and (v) prepare documentation.

A highly competitive salary commensurate with qualifications and experience will be offered, in addition to annual leave and medical benefits.

The University only accepts online applications for the above post. Applicants should apply online and upload an up-to-date, project-based CV (including a link to your GitHub profile), transcripts and a writing sample. Review of applications will start as soon as possible and continue until **June 30, 2022**, or until the post is filled, whichever is earlier.

Advertised:Apr 14, 2022 (HK Time)

Applications close:Jun 30, 2022 (HK Time)

Powered by PageUp

Copyright © 2022 Human Resources Office, The University of Hong Kong. All Rights Reserved.