CENTRE FOR ADVANCES IN RELIABILITY AND SAFETY LIMITED

Centre for Advances in Reliability and Safety Limited (CAiRS), initiated by The Hong Kong Polytechnic University, is established in 2020 with its operation located in the Hong Kong Science Park, New Territories, Hong Kong. The mission of CAiRS is to bridge academic and industrial counterparts to introduce and implement artificial intelligence methods and prognostic techniques to advance reliability and safety. The goal of the Centre is to improve reliability and safety of critical components and devices, products, systems and sub-systems designed, commissioned and/or manufactured by Hong Kong companies and enterprises. More information about the company can be found at http://www.cairs.hk.

Lead Engineer/ Senior Engineer (Ref. No.: CAiRS-LE/SE/P.4.2 - Hybrid strategies for AI-based safety assurance)

Duties

The appointee will report to the Project Leader and Programme Manager, and assist in planning and monitoring the research project – "Hybrid strategies for AI-based safety application".

The project will be involved in development and implementation of algorithms with artificial intelligence (AI) and big data analytics for safety and reliability in the area of "smart manufacturing and inspection".

Applicants will be required to:

a) work with industry counterparts in consolidating academic research into tangible deliverables;

b) steer the project, and ensure good and appropriate applicability to commercial/industrial partners;

c) coordinate the delivery, installation and testing of the equipment; and ensure the equipment being properly installed, tested and commissioned;

d) manage research and development activities including technical and financial aspects, and other project administrative tasks such as preparing project updates and reports;

e) work closely with research colleagues of the teams;

f) coordinate with local and overseas universities, research institutions and business partners, and handle enquiries in a professional manner; and

g) perform any other duties as assigned by the Centre Director or his delegates.

Qualifications

Applicants should have/ be:

a) a master's degree or above in Engineering, Computer Science, Mathematics, Statistics, or a relevant discipline;

b) at least three years of research/relevant work experience;

c) strong analytical skill with experience in data analytics, big data and/or artificial intelligence (AI);

d) proficiency in programming languages (e.g. Python, MATLAB, R);

e) knowledge of computer vision;

f)   knowledge of corporate product development is a plus;

g)   knowledge and experience of reliability and safety area will be a plus;

h)   well-organized, capable to work under pressure and able to handle multi-tasking assignments in a multidisciplinary team;

i)   excellent interpersonal skills; and

j)   a good command of written and spoken English and Chinese, with proficiency in Putonghua being an advantage.

Applicant with less experience will be considered as a Research Associate.

Applicants are invited to contact Dr. Jeffery Chan at tel no. 2162 5118 or email jeffery.chan@cairs.hk for further information.

Remuneration

A highly competitive remuneration package will be offered. Applicants should state their current and expected salary in the application.

Application

Please send a completed application form, together with a detailed curriculum vitae via email to careers@cairs.hk

Feb 2022

Deadline for application: Recruitment will continue until the position is filled.