

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>.

(1) Postdoctoral Fellow (Ref. No.: CAiRS-R21/P5.1 - Sharable knowledge database)
[Appointment period: each for thirty-six months]

(2) Research Associate (Ref. No.: CAiRS- R22/P5.1 - Sharable knowledge database)
[Appointment period: each for thirty-six months]

Duties

The appointees will assist the Project Leader and Programme Manager in the development of industry data to contribute to and enhance overall product/system safety and reliability.

The **Postdoctoral Fellow** appointee will be required to:

- a) convert/conceptualize industrial pain point/motivation to a good structure AI research;
- b) team up with a group of researchers with specific expertise to set the research directions;
- c) coordinate, disseminate, and communicate internally and externally the research plan;
- d) drive to reach the reliability and safety objectives;
- e) prepare and publish relevant research papers in high-tier peer-reviewed journals; and
- f) perform any other duties as assigned by the Centre Director or his delegates.

The **Research Associate** appointee will be required to:

- a) plan industrial pain point/motivation to a good structure AI research;
- b) team up with a group of researchers with specific expertise to implement the research work and experiment;
- c) drive to reach the reliability and safety objectives within scheduled timeline;
- d) report project work issues and support devising of project proposal and report; and
- e) perform any other duties as assigned by the Centre Director or his delegates.

Qualifications

Applicants for the post of **Postdoctoral Fellow** should have a doctoral degree or an equivalent qualification in Data Science, Electrical Engineering, Information Engineering, Mechanical Engineering, Industrial Engineering, Computer Science or a related discipline.

Applicants for the post of **Research Associate** should have a master's degree in Data Science, Electrical Engineering, Information Engineering, Mechanical Engineering, Industrial Engineering, Computing Science or a relevant field.

For both posts, applicants should also have:

- (a) knowledge of database and machine learning;
- (b) well-organized, capable to work under pressure and able to handle multi-tasking assignments in a multidisciplinary team;
- (c) excellent interpersonal skills; and
- (d) good command of written and spoken English and Chinese, with proficiency in Putonghua being an advantage.

Fresh graduates are also welcome.

Applicants are invited to contact Dr. Haibo Hu at haibo.hu@polyu.edu.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 positions are filled.