

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 link up academic and industrial counterparts to introduce and implement new artificial intelligence methods and deep learning techniques with reliability modelling, with the goal of improving the products reliability and systems 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-R4/P3.2)

**[Appointment period: thirty-six months]**

(2) **Research Associate / Research Assistant** (Ref. No.: CAiRS-R5/P3.2)

**[Appointment period: thirty-six months]**

### **Duties**

The appointees will assist the Project Leader and Programme Manager in the research project – “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 areas of “railway” and “lift and E&M systems”.

### **Qualifications**

Applicants for the post of **Postdoctoral Fellow** should have a doctoral degree in Engineering, Computer Science, Mathematics, Statistics, or a relevant discipline, and must have no more than five years of post-qualification experience at the time of application.

Applicants for the post of **Research Associate / Research Assistant** should have a honours degree or above in Engineering, Computer Science, Mathematics, Statistics, or a relevant discipline.

For both posts, applicants should also have/ be:

- a) strong analytical skill with experience in data analytics, big data and/or artificial intelligence (AI);
- b) proficiency in programming languages (e.g. Python, MATLAB, R);
- c) knowledge and experience of reliability and safety area will be a plus;
- d) knowledge of frontend and backend development being an advantage;
- e) well-organized, capable to work under pressure and able to handle multi-tasking assignments in a multidisciplinary team;
- f) excellent interpersonal skills; and
- g) a good command of written and spoken English and Chinese, with proficiency in Putonghua being an advantage.

### **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 [ckm.lee@polyu.edu.hk](mailto:ckm.lee@polyu.edu.hk) or [careers@cairs.hk](mailto:careers@cairs.hk)