

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-R25/P4.3 - Functional safety verification of systems that implement AI)
[Appointment period: thirty-six months]
- (2) **Research Associate** (Ref. No.: CAiRS-R26/P4.3 - Functional safety verification of systems that implement AI)
[Appointment period: thirty-six months]

Duties

The appointees will assist the Project Leader and Programme Manager in the development of AI technique to meet safety criteria of functional safety standards.

For the post of **Postdoctoral Fellow**, the appointee will be required to:

- (a) conduct literature review on AI and data analytical techniques with the related application;
- (b) design and implement AI and data analytical techniques;
- (c) perform required experimental setup and simulation (both hardware and software);
- (d) prepare and publish relevant research papers in high-tier peer-reviewed journals; and
- (e) perform any other duties as assigned by the Centre Director or his delegates.

For the post of **Research Associate**, the appointee will be required to:

- (a) conduct literature review on AI and data analytical techniques with the related application;
- (b) implement data analytical techniques;
- (c) perform required experimental setup and simulation (both hardware and software);
- (d) prepare proposal and technical reports; 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 a S-T-E-M related discipline. They should have a good publication record.

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

For both posts, applicants should also:

- (a) have knowledge of corporate product development;
- (b) be well-organized, capable to work under pressure and able to handle multi-tasking assignments in a multidisciplinary team;
- (c) have excellent interpersonal skills; and
- (d) have a 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. Nick Chung at tel no. 3400 3790 or email nick.sh.chung@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

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