

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>.

**Research Scientist** (Ref. No.: CAiRS-RS/P3.4 – Use of failure models and Bayesian methods for real-time failure prediction and Uncertainty management)

### **Duties**

The appointee will assist the Project Leader and Programme Manager in the planning and execution of the research project - “Use of failure models and bayesian methods for real-time failure prediction and uncertainty management”. The project will develop advanced prognostic techniques for health monitoring and lifetime prediction of IGBT/SiC power modules in power electronic converters.

He/she 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 at the Centre;
- 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:

- a) have a master’s degree in Computer Science, Electrical Engineering, Industrial Engineering or a relevant discipline. Preference will be given to those who possesses a doctoral degree;
- b) have research/relevant work experience with knowledge of corporate product development;
- c) be well-organized, capable to work under pressure and able to handle multi-tasking assignments;
- d) have excellent interpersonal skills; and
- e) have a good command of written and spoken English and Chinese, with proficiency in Putonghua being an advantage.

Applicants are invited to contact Dr Loo Ka Hong at tel no. 2766 4744 or email [kh.loo@polyu.edu.hk](mailto:kh.loo@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](mailto:careers@cairs.hk)

Feb 2022

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