

# THE HONG KONG POLYTECHNIC UNIVERSITY

## DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

**(1) Research Fellow / Postdoctoral Fellow (two posts)** (Ref. 18102301)  
**[Appointment period: each for twenty-four months]**

**(2) Research Associate / Research Assistant (two posts)** (Ref. 18102302)  
**[Appointment period: each for twenty four months]**

Research positions at various levels are now available in the Department of Civil and Environmental Engineering of The Hong Kong Polytechnic University. Applicants are invited to join a dynamic research team led by Ir Prof. Teng Jin-guang and Prof. C.S. Poon and contribute to a major research project on the use of fibre-reinforced polymer (FRP) composites and seawater sea-sand concrete (SSC) to construct sustainable marine infrastructure, which has recently been funded by the Hong Kong Research Grants Council ([https://www.polyu.edu.hk/web/en/media/media\\_releases/index\\_id\\_6564.html](https://www.polyu.edu.hk/web/en/media/media_releases/index_id_6564.html)). Within this project, there are opportunities for research into many different issues, including the understanding of sea water and sea sand on the hydration and microstructure of cement and concrete, exploring the nanostructure of sea water hydrated cement by advanced instrumentation and molecular simulations, and assessing the durability of sea water and sea sand concrete. Abundant opportunities exist for international collaboration and exchanges.

### Duties

The appointees will assist the project leader in the research project - “Sustainable marine infrastructure enabled by the innovative use of seawater sea-sand concrete and fibre-reinforced polymer composites”.

### Qualifications

Applicants for the **Research Fellow** post should have a doctoral degree in a related discipline with at least three years of postdoctoral research experience or equivalent qualifications and experience.

Applicants for the **Postdoctoral Fellow** post should have a doctoral degree or an equivalent qualification in a related discipline and must have no more than three years of post-qualification experience at the time of application.

Applicants for the **Research Associate** post should have a master’s degree or a good honours degree in a related discipline with three or more years of research/relevant work experience.

Applicants for the **Research Assistant** post should have an honours degree or an equivalent qualification in a related discipline.

Applicants should also have:

- (a) a strong interest in pursuing an academic/research career; and
- (b) an excellent track record in research.

Preference will be given to those with a doctoral degree in Cement or Concrete Research or a closely related discipline from a reputable university and with closely relevant research experience. Research publications will be an important criterion for assessing the research experience and achievement of an applicant. Applicants should submit (a) a completed application form; (b) a brief cover letter; (c) curriculum vitae; and (d) a short personal statement explaining why they are interested in joining the research group. For applications via email, please combine all documents in a single file in “pdf” format with the email subject of “Application for Research Position”.

Shortlisted candidates will be invited to attend a web-based or phone interview.

Applicants are invited to contact Prof. C.S. Poon at tel no. 2766 6024, fax no. 2334 6389 or email [cecspoon@polyu.edu.hk](mailto:cecspoon@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.

31 January 2019