

THE HONG KONG POLYTECHNIC UNIVERSITY

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Post Specification

Postdoctoral Fellow / Research Associate / Research Assistant (several posts) (Ref. 16091409)
[Appointment period: each for twelve months initially, with possibility of further appointment, tenable from 2 January 2017]

Duties

The appointees will assist the Director of the Hong Kong Branch of National Engineering Research Centre for Steel Construction in the research project – “Effective high strength steel construction for sustainable infrastructure development in Hong Kong”. They will also be required to assist the Director of the Centre to supervise and manage a number of large scale research projects. The key objectives of the Centre are:

- (a) to establish a high level technological platform to promote effective design and construction of modern building and civil engineering structures as well as sustainable infrastructure development in Hong Kong; and
- (b) to advance technological capabilities of Hong Kong’s construction industry in the design and construction of super high-rise buildings, long span bridges and buildings of large enclosure using high performance materials in Hong Kong and overseas.

The appointees will participate in the following research projects under the thematic research directive “Effective high strength steel construction for sustainable infrastructure development in Hong Kong” funded by the Hong Kong Branch of National Engineering Research Centre for Steel Construction:

- HSS-1. Material characterisations of high strength steel materials
- HSS-2. Welded connections with high strength steel materials
- HSS-3. Bolted connections with high strength steel materials
- HSS-4. Tubular connections with high strength steel materials
- HSS-5. Member response on high strength steel fabricated tubular sections

Through a combination of targeted laboratory testing under monotonic and cyclic loads and detailed numerical modelling, the above-mentioned projects aim to generate the necessary fundamental data and understanding on the response of high strength steel materials for sustainable infrastructure development in Hong Kong.

Qualifications

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 and a first class or upper second class honours degree in Civil Engineering or an equivalent qualification.

Applicants for the **Research Assistant** post should have a first class or upper second class honours degree in Civil Engineering or an equivalent qualification.

Applicants are invited to submit an application to Miss Catherine E. Ng at catherine.e.ng@polyu.edu.hk.

They are also invited to contact Prof. K.F. Chung at email kwok-fai.chung@polyu.edu.hk (for projects HSS-1 and 2); Ir Dr Michael C.H. Yam at email michael.yam@polyu.edu.hk (for project HSS-3); and Dr Tak-Ming Chan at email tak-ming.chan@polyu.edu.hk (for projects HSS-4 and 5) for further information.

Remuneration

A highly competitive remuneration package will be offered. Applicants should state their current and expected salary in the application.

14 September 2016