

THE HONG KONG POLYTECHNIC UNIVERSITY

DEPARTMENT OF ELECTRICAL ENGINEERING

Post Specification

Assistant Professor in Power Systems Engineering (Ref. 19012301)

The Department of Electrical Engineering is one of the seven academic units in the Faculty of Engineering. It is the major education provider in electric power/energy engineering, power electronics and utilisation as well as railway engineering among the universities in Hong Kong. The Department is playing an important role in educating the electrical engineers for Hong Kong, and to some extent for the Chinese mainland arising from its continuous expansion in electrical infrastructure. Please visit the website at <http://www.ee.polyu.edu.hk> for more information about the Department.

Duties

The appointee will be required to:

- (a) teach at undergraduate and postgraduate levels in areas including power system analysis and control, electromagnetic transients modelling and simulation, power system protection and coordination, smart grid and micro grid;
- (b) conduct original research in areas including modelling and protection and coordination of large scale offshore renewable energy generations that lead to publications in top-tier refereed journals and awards of research grants;
- (c) establish an externally funded research programme;
- (d) assist in developing curriculum activities for the undergraduate programme in Power Systems Engineering;
- (e) supervise student projects and theses;
- (f) contribute to departmental activities; and
- (g) perform any other duties as assigned by the Head of Department or his delegates.

Qualifications

Applicants should have:

- (a) a PhD degree in a relevant discipline;
- (b) demonstrated excellence in original research and strong fundamental knowledge in one or more of the following core research areas, but not limited to: (i) power system stability, analysis and control; (ii) power system protection and coordination; (iii) electromagnetic transients modelling and simulation; and (iv) modelling and analysis of large scale renewable generations;
- (c) experience in successfully securing external competitive research grants; and
- (d) excellent communication skills and the ability to use English as the medium of instruction.

Remuneration and Conditions of Service

A highly competitive remuneration package will be offered. Initial appointment will be on a fixed-term gratuity-bearing contract. Re-engagement thereafter is subject to mutual agreement. For general information on terms and conditions for appointment of academic staff in the University, please visit the website at <http://www.polyu.edu.hk/hro/TC.htm>. Applicants should state their current and expected salary in the application.

23 January 2019