

THE HONG KONG POLYTECHNIC UNIVERSITY

DEPARTMENT OF MECHANICAL ENGINEERING

Post Specification

Professor / Associate Professor / Assistant Professor in Materials and Solid Mechanics

(Ref. 21020315)

The Department of Mechanical Engineering is one of the three founding departments of the University since 1937 and one of the seven academic units in the Faculty of Engineering. Its world-class faculty and internationally reputed programmes draw students from across the globe. It offers academic programmes at both undergraduate and postgraduate levels, over a large spectrum of topics including combustion and pollution control, fluid-structure interactions, materials and mechanics, sound and vibration, control and robotics, clean energy technologies, aeronautical engineering, product design and development. Please visit the website at <http://www.polyu.edu.hk/me> for more information about the Department.

Duties

The appointee will be required to:

- (a) teach at undergraduate and postgraduate levels;
- (b) conduct research that leads to publications in top-tier refereed journals and awards of research grants;
- (c) undertake research, programme/curriculum development and administration;
- (d) supervise student projects and theses;
- (e) engage in industrial and scholarly research/consultancy activities;
- (f) undertake academic and departmental administrative duties; and
- (g) perform any other duties as assigned by the Head of Department or his/her delegates.

Qualifications

Applicants should have:

- (a) a PhD degree in relevant disciplines;
- (b) relevant post-qualification experience and an excellent track record of research in all aspects of materials science and engineering, preferably but not limited to one or more of following areas:
 - (i) materials genome and machine learning for advanced materials design;
 - (ii) advanced polymer, soft matters, composite materials;
 - (iii) advanced materials for 5G era, renewable energy, environment, healthcare;
 - (iv) innovative materials processing, additive or smart manufacturing; or
 - (v) computational materials modelling;
- (c) strong commitment to excellence in teaching and research;

- (d) good publication records;
- (e) good networking ability; and
- (f) 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 for Assistant Professor will be on a fixed-term gratuity-bearing contract. Re-engagement thereafter is subject to mutual agreement. An appropriate term will be provided for appointment at Associate Professor / Professor levels. 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.

3 February 2021

Application

Applicants should download the application form (72A) from the following link: https://www.polyu.edu.hk/hro/job/en/guide_forms/forms.php.

Please send your application to Human Resources Office at hrstaff@polyu.edu.hk and quote the reference number **21020315**.