

THE HONG KONG POLYTECHNIC UNIVERSITY

DEPARTMENT OF APPLIED MATHEMATICS

Post Specification

Professor in Applied Optimization and Operations Research / Data Science and Analytics (Ref. 22050513)

The Department of Applied Mathematics (AMA) is part of the Faculty of Applied Science and Textiles. The Department offers Bachelor of Science Scheme in Data Science, and makes a significant contribution to most of other academic programmes of the University by providing service teaching. It also offers master programmes in Applied Mathematics for Science and Technology with specialisms in Decision Science, Actuarial and Investment Science, Operational Research and Risk Analysis, and Data Science and Analytics. Members of the Department have expertise in applied optimization and optimal control, engineering computation, operational research, management science, applied statistics, FinTech, data science and machine learning. There are currently 51 academic staff and about 36 research personnel in the Department. Please visit the website at <http://www.polyu.edu.hk/ama> for more information about the Department.

The Department has established a Joint Laboratory of Applied Mathematics with the Academy of Mathematics and Systems Science of the Chinese Academy of Sciences. The appointee is expected to be actively involved in the activities of the Laboratory.

Duties

The appointee will be required to:

- (a) provide leadership in all aspects of academic activities, including teaching, research and services;
- (b) conduct research as the main duty and actively pursue external research grants, such as General Research Fund, as Principal Investigator or Co-Investigator;
- (c) provide quality teaching at undergraduate and/or postgraduate level(s) and supervise student projects and theses;
- (d) contribute to the development of enhancement of teaching and learning, and departmental service;
- (e) carry out academic and administrative duties as required; and
- (f) perform any other duties as assigned by the Head of the Department or his/her delegates.

Qualifications

Applicants should have:

- (a) have a doctoral degree in Operations Research / Computational Mathematics / Applied Mathematics or a closely related field with experience in Data Science and Analytics;

- (b) demonstrated promise of a high level of creativity in research and an excellent portfolio of teaching in respective areas;
- (c) substantial experience in academic programme planning, management and curriculum development;
- (d) excellent records of publications in internationally recognized journals and successful bidding of external competitive research grants;
- (e) extensive local and international connections in research and professional capacities; 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. An appropriate term will be provided for appointment at Professor level. For general information on terms and conditions for appointment of academic staff in the University, please visit the website at <https://www.polyu.edu.hk/hro/docdrive/careers/doc/Prof.pdf>. Applicants should state their current and expected salary in the application.

Application

Please send a completed application form by post, nominate three referees from different institutions/organisations by providing their names, addresses and relationship with the applicants, to **Human Resources Office, 13/F, Li Ka Shing Tower, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong** or via email to hrstaff@polyu.edu.hk. Application forms can be downloaded from https://www.polyu.edu.hk/hro/careers/guidelines_and_forms/forms. If a separate curriculum vitae is to be provided, please still complete the application form which will help speed up the recruitment process. **Consideration of applications will commence on 26 May 2022 until the position is filled.** The University's Personal Information Collection Statement for recruitment can be found at https://www.polyu.edu.hk/hro/careers/guidelines_and_forms/pics_for_recruitment.

5 May 2022