THE HONG KONG POLYTECHNIC UNIVERSITY

SCHOOL OF OPTOMETRY

Post Specification

Post-doctoral fellowship in Visual Optics
[Appointment period: 36 months, with possibility of further appointment]

Duties

The School of Optometry (Home | School of Optometry (polyu.edu.hk)) from The Hong Kong Polytechnic University is an internationally recognized research center for its high-impact research on refractive anomalies and age-related ocular diseases. The School invites applications for a 3-year post-doctoral fellowship to develop novel visual systems with a special focus on adaptive eyeglasses for low-vision patients, presbyopes, and myopia control. The project involves an international team of experts in the field of optics, visual science and electronic including the School of Optometry and the Department of Electrical and Electronic Engineering Home | Department of Electrical and Electronic Engineering (polyu.edu.hk) at Hong Kong Polytechnic University, the Applied Optics group Applied Optics - University of Galway (nuigalway.ie) at the University of Galway and the MIPA laboratory Laboratoire MIPA – Mathématiques, Informatique, Physique et Applications (unimes.fr) at the University of Nimes.

The appointee will be required to:

(a) Design and build the optomechanical structure of adaptive eyeglasses system using Zemax and Solidworks;

(b) Develop a miniature wavefront sensing system to be integrated into the eyeglass;

(c) Develop an eye-tracking system to be integrated into the eyeglass;

(d) Develop an adaptive control system for real-time adjustment of the ocular accommodative demand.

(e) Test the system performance

Qualifications

Applicants for the postdoctoral fellowship should have an honours degree or an equivalent qualification.

Applicants should also:

(a) Good knowledge in optical engineering;

(b) Proficiency in Zemax and Solidworks, or related software;

(c) Proficiency in programming languages, such as C/C++/ Python.

Appointment details:

- Full-time fixed-term appointment for a duration of 3 years.
- A highly competitive remuneration package will be offered (Monthly allowance: 3600 - 5400 euros/month, depending on the experience of the candidate).
- Workplace address: Hong Kong Polytechnic University.

Application procedure

Interested applicants please send your resume to Dr Elie de Lestrange-Anginieur at elie.delestrangeanginieur@polyu.edu.hk for further information.

Application deadline

Consideration of applications will commence on 01/11/2023 until the position is filled.

Date 10-10-2023