THE HONG KONG POLYTECHNIC UNIVERSITY

SCHOOL OF OPTOMETRY

Post Specification

3-year Doctoral contract in Visual Optics
[with an elective 36-month engagement period subsequent to graduation]

The ITF-funded project: Towards an Intelligent Eyeglass with Autocorrection, hosted by The Hong Kong Polytechnic University (QS ranking: 65th), is inviting applications for a 3-year doctoral contract to develop smart adaptive eyeglasses for presbyopes and low-vision patients.

The candidate will join an international team of experts in the field of Optics (Dr. Alexander Goncharov, Dr Charles-Edouard Leroux, Dr Elie De Lestrange-Anginieur), Visual Science (Dr Elie De Lestrange-Anginieur, Prof. Allen Cheong, Prof George Woo), and Electronics (Prof Eric Cheng) including:

- the School of Optometry Home | School of Optometry (polyu.edu.hk) and the Department of Electrical and Electronic Engineering Home | Department of Electrical and Electronic Engineering (polyu.edu.hk) at the Hong Kong Polytechnic University,
- the MIPA laboratory Laboratoire MIPA — Mathématiques, Informatique, Physique et Applications (unimes.fr) at the University of Nimes and,
- the Applied Optics group Applied Optics - University of Galway (nuigalway.ie) at the University of Galway.

As a member of the ITF-project, the doctoral candidate will be primarily based in Hong Kong. His/her degree will be delivered by the School of Optometry – an international research center recognized for its high-impact research on refractive anomalies and age-related ocular diseases.

The appointee is expected to design the optics of adaptive eyeglasses, develop wavefront sensing systems integrated into the eyeglasses, and build an adaptive control system for real-time adjustment of the wearer’s focus.

Qualifications

- Bachelor or Master's degree in Optics, or related science disciplines.
- Proficiency in Zemax or optical-related software;
- Proficiency in programming languages, such as C/C++, Python, or Matlab.
- Proficiency in French and functional in English.

Appointment details:

- Full-time fixed-term contract (36 months).
- Salary: 1980 € gross/month.
- Subsequent to the obtention of the doctoral degree, a fresh 36-month engagement period will be allowed [with the possibility of applying for a higher level of salary allowance and/or additional living allowance].
- Workplace: The Hong Kong Polytechnic University (Hong Kong).
- Starting date: June/July 2024

**Application procedure**

Interested applicants, please send your resume to the project PI, Dr Elie De Lestrange-Anginieur at elie.delestrangeanginieur@polyu.edu.hk for further information.

**Application deadline**

Consideration of applications will commence on 06/02/2024 until the position is filled.

Date 06-02-2023