

CENTRE FOR EYE AND VISION RESEARCH LIMITED

Centre for Eye and Vision Research Limited (CEVR) is a research collaboration between The Hong Kong Polytechnic University (PolyU) and the University of Waterloo (UW) in Canada. It will be located at the Hong Kong Science Park, New Territories, Hong Kong. It will be the first global hub performing ground-breaking research in five key areas – myopia and eye growth, ocular drug discovery and delivery, vision enhancement, tear film and ocular surface and advanced optometric technology. The mission of CEVR is to generate technologies to prevent vision loss in the aging population and preserve healthy vision.

(1) Postdoctoral Fellow (two posts) (Ref. No.: CEVR-R018)

[Appointment period: each for twelve months initially, with possibility of further appointment]

(2) Research Associate / Research Assistant (two posts) (Ref. No.: CEVR-R019)

[Appointment period: each for twelve months initially, with possibility of further appointment]

Duties

The appointees will assist the project leaders in the multi-disciplinary research project – “Ultrafast laser activation of ocular drugs”.

Qualifications

Applicants for the **Postdoctoral Fellow** posts should have a doctoral degree or an equivalent qualification in Optics, Photonics or other related disciplines, and must have no more than five years of post-qualification experience at the time of application.

Preference will be given to those with experience in developing novel optical instrumentation related to either applications of ultrafast lasers, high resolution imaging of the retina or laser excitation of photosensitive drugs.

Applicants for the **Research Associate** posts should have a master’s degree or a good honours degree with three or more years of research/relevant work experience or an equivalent qualification in one of the said disciplines.

Applicants for the **Research Assistant** posts should have an honours degree or an equivalent qualification in one of the said disciplines.

For **all posts**, preference will be given to those with one or more of the following requirements:

- (a) who have the ability to build an optical apparatus and align components; with either previous exposure or willingness to take training in working with high powered short pulse lasers and chirped pulsed amplification;
- (b) who have the ability to work in a multidisciplinary area – the application of ultrafast lasers to the treatment of eye disease;
- (c) with the knowledge of optics applicable to two photon excitation of drugs;
- (d) with the knowledge of optical quality of the eye and its correction using adaptive optics;
- (e) with the knowledge of localization of ultrafast pulses in space and time within tissue via dispersive correction; and
- (f) who are eligible for the Research Talent Hub (RTH-ITF) of Hong Kong.

Applicants are invited to contact Prof. Donna Strickland and Prof. Melanie Campbell of the University of Waterloo at tel no. 1-519-722-6273 or email mcampbel@uwaterloo.ca or Dr Dennis Tse Yan-yin of The Hong Kong Polytechnic University at tel no. 2766 6096 or email dennis.tse@polyu.edu.hk for further information.

Remuneration

A highly competitive remuneration package will be offered. Applicants should state their current and expected salary in the application.

Revised on 28 June 2021