



POSITION DESCRIPTION

Research Fellow

POSITION NUMBER	New
RESEARCH UNIT	Ophthalmic Epidemiology
CLASSIFICATION	Research Staff Level A
EMPLOYMENT TYPE	Full time 1-year contract
REPORTS TO	Professor Mingguang He
BASE SALARY	\$74,995 - \$101,763 (minimum with PhD \$94,806)
SUPERANNUATION	Employer contribution of 10%, increasing to 10.5% effective 1 July 2022
OTHER BENEFITS	Salary packaging available (making part of your salary tax-free and increasing take-home pay) For more information visit www.smartsalary.com.au
HOW TO APPLY	Visit www.cera.org.au and apply via our <i>Study and Careers</i> page
CONTACT FOR ENQUIRIES ONLY	CERA Human Resources t: (03) 9929 8201 e: cera-hr@unimelb.edu.au <i>Please DO NOT send your application to this email address</i>

The Centre for Eye Research Australia is an equal opportunity employer and is committed to promoting a diverse and inclusive workforce. We encourage people from diverse backgrounds to apply for positions within our organisation.

For further information about us visit www.cera.org.au

Position Summary

This postholder will conduct high level academic research on artificial intelligence and its clinical adoption in ophthalmology and provide technical support for the ongoing projects supported by MRFF AI in Health and NHMRC Investigator Grant in CERA's Ophthalmic Epidemiology team under Professor Mingguang He's supervision. The ideal candidate should have outstanding skills and knowledge of conducting academic research and technical development on artificial intelligence demonstrated by both scientific publications and hands-on capability on programming and coding.

Key Responsibilities

CONTRIBUTION TO TEACHING AND LEARNING

1. Deliver occasional presentations and supervise students where appropriate.

RESEARCH

1. Conduct high level academic research on artificial intelligence and its clinical adoption in ophthalmology
2. Working with international collaborators on co-design and implementation of the artificial intelligence program
3. Follow timelines and milestones in accordance with the research schedule of the project
4. Preparation and publication of high-quality research papers and technical reports

ENGAGEMENT

1. Attend and actively contribute to team meetings
2. Attend CERA staff and student forums and other internal meetings as required
3. Present research results at local and national meetings and conferences
4. Effective liaison with external partners and stakeholders to foster collaborative research partnerships

LEADERSHIP AND SERVICE

1. Provide technical support to the research team on artificial intelligence system development and optimization.
2. Assist with preparing and submitting competitive grant applications relating to AI research.
3. Perform any other duties as reasonably requested by your supervisor.
4. Comply with CERAs policies and procedures.

Selection Criteria

ESSENTIAL

1. A MD or PhD degree in a relevant discipline—medicine, ophthalmology, computer science.

2. Successful publication track record on artificial intelligence research preferably in the field of ophthalmology.
3. Demonstrated capability on independent programming/ coding on artificial intelligence algorithm and software development, proficiency understanding programming software such as Python, R, Pytorch, Tensorflow framework.
4. Flexibility to travel and stay in United Kingdom or United States for several months to support an international collaboration program.
5. Strong interest in medical innovation, demonstrated by patent submissions or grant success.
6. Clinical experience or practice in ophthalmology is essential.
7. Demonstrated ability to manage multiple tasks and successfully complete within defined timelines.
8. Sound ability to work collaboratively, understand and respect other's opinions and comments.
9. Excellent written, verbal, and interpersonal communication skills.

Job complexity, skills and knowledge

Level of supervision/independence

The position will undertake literature drafting, review, proofread in assigned academic work independently. The incumbent will mostly make an independent contribution through academic practice and expertise and coordinate and/or lead the activities of other researchers, under supervision from Professor He.

Problem solving and judgement

Discretion to innovate within own function and take responsibility for outcomes; design, develop and test complex equipment, systems and procedures; undertake planning involving resources use and develop proposals for resource allocation; exercise high level diagnostic skills on sophisticated equipment or systems; analyse and report on data and experiments.

Professional and organisational knowledge

Perform tasks/assignments which require proficiency in the work area's existing rules, regulations, policies, procedures, systems, processes and techniques and how they interact with other related functions, and to adapt those procedures and techniques as required to achieve objectives without impacting on other areas.

Special requirements and other information

1. CERA is committed to providing a workplace that is healthy and safe for staff, students, patients, visitors, contractors and the community. You are required to be fully vaccinated against COVID-19 (SARS-CoV-2), including with a booster dose, unless CERA grants you an exemption.
2. To be eligible for this position you must be an Australian or New Zealand citizen, permanent resident or hold a valid work permit or visa.
3. You will be required to consent to a police check. Please note that people with criminal records are not automatically prevented from applying for the position and each application will be considered on its merits.
4. You may be required to independently travel to national or international locations to fulfill the requirements of the position.
5. Occasional availability outside normal working hours will be required.
6. This position will have no direct reports.

About us

The Centre for Eye Research Australia (CERA) is an international leader among ophthalmology research institutes. We conduct research with real-life impact looking at the causes of eye disease, preventing blindness through earlier diagnosis and better treatments, and restoring sight.

CERA has multidisciplinary research programs that cover the full spectrum from laboratory-based basic science and stem cell research through to genetics, translational and clinical research, as well as health and population-based research.

We are an independent medical research institute closely affiliated with the University of Melbourne and co-located, at the Royal Victorian Eye and Ear Hospital. The strength of this three-way relationship is key to the successful translation of research from the bench to the bedside.

CERA has two main locations in Melbourne, one at the Royal Victorian Eye and Ear Hospital and the other at Baker Heart and Diabetes Institute, located within the Alfred Medical Research and Education Precinct. We also have clinical research facilities at the Eye and Ear on the Park hospital in East Melbourne. We have around 130 staff and students working across our three sites.

Our vision and values

We strive to remain a world-leading eye research institute, renowned for the discovery of the causes of eye diseases and our work in improving diagnosis, prevention, treatment and rehabilitation of eye diseases, vision loss and blindness through our research, clinical work and teaching.

This vision is supported by our values of:

- **Integrity** – We are accountable and honest in the work we do. Credible, ethical and responsible research is our priority.
- **Unity** – We support and respect each other, celebrate our diversity and we pitch in when it is needed. In our work, keeping each other safe is always top of mind.
- **Agility** – We research with ambition, tenacity, innovation and creativity. We are nimble and responsive in our pursuit of excellence.
- **Making a difference** – We value collaborating and sharing our knowledge with each other and our community to make a real difference in the world. We never waiver from our goal of saving sight and changing people's lives for the better.

Occupational Health and Safety (OHS) and Environmental Health and Safety (EHS) responsibilities

CERA is committed to providing a workplace that is healthy and safe for staff, students, patients, visitors, contractors and the community. We aim to develop and maintain a culture that encourages all staff to actively manage health and safety risks and to consider the environment.

Our staff have a duty to take reasonable care for their own health and safety and the health and safety of other people who may be affected by their conduct in the workplace.