



RESEARCH FELLOW - CLIMATE, AIR QUALITY AND HEALTH

DEPARTMENT/UNIT	Department of Epidemiology, School of Public Health and Preventive Medicine
FACULTY/DIVISION	Faculty of Medicine, Nursing and Health Sciences
CLASSIFICATION	Level A
DESIGNATED CAMPUS OR LOCATION	553 St Kilda Road, Melbourne

ORGANISATIONAL CONTEXT

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

The **Faculty of Medicine, Nursing and Health Sciences**, is the largest faculty at Monash University, and offers the most comprehensive suite of professional health training in Victoria. We consistently rank in the top 40 universities worldwide for clinical, pre-clinical and health sciences.

We want to improve the human condition. That is our vision - it has no expiration date. Through academic health centres, other translational models and by educating the healthcare workforce of the future, our staff, students and alumni directly improve quality of life.

Setting the global health care agenda, the Faculty aspires to lead in all areas of research activity and influence local, national and international policy to improve health and social outcomes and health inequalities. We've made a major impact in the world of medical research and become globally recognised for our quality education of over 41,000 doctors, nurses, and allied health professionals.

We are ambitious and aim to maintain our position as a leading international medical research university. We're recognised for the breadth and depth of our research, for our commitment to translational research, for the quality and scale of our research capability, and as a thriving biotechnology hub.

To learn more about the Faculty, please visit www.monash.edu/medicine.

Monash School of Public Health and Preventive Medicine is a teaching and research unit of the Faculty of Medicine, Nursing and Health Sciences and is centred at the Alfred Hospital Campus. It plays a prominent role in

public health medicine and works closely with the major Monash affiliated hospitals, research institutes and public health units within Victoria. It plays a prominent role in public health medicine in Australia and has a strong record for training individuals with the capacity and skills to assume leadership roles in Australia in this field. We work closely with the major Monash affiliated hospitals, research institutes and public health units within Victoria. Our skills provide a key resource underpinning translational research within our Faculty.

POSITION PURPOSE

A Level A research-only academic is expected to contribute towards the research effort of the University and to develop their research expertise through the pursuit of defined projects relevant to the particular field of research.

The Postdoctoral Research Fellow will contribute to research projects in the Climate, Air Quality Research (CARE) Unit. Climate change and air pollution are major growing threats to public health. The CARE Unit seeks to understand the links between these and public health, and facilitates future planning for health policy and services by modelling the impact of climate change on health. The CARE Unit regularly collaborates with research groups across Australia and the world to produce high-impact, large-scale evidence that informs policy and healthcare. The Postdoctoral Research Fellow will support the delivery of project outcomes and, where required, may also assist the Chief Investigator with applications to leverage new funding for future research.

The Postdoctoral Research Fellow will contribute to the NHMRC-funded project 'Climate Change and Human Health in Asia: Current Impacts, Future Risks, and Health Benefits of Mitigation Policies'. This project will comprehensively examine the burden of diseases attributed to ambient temperature in the context of climate change in Asia Pacific region.

The Postdoctoral Research Fellow will support the establishment of the multi-country project, working collaboratively with a global multidisciplinary team, and engaging with project stakeholders. The primary focus of this position will be to ensure efficient management of the multitude of datasets used for this project, including the health outcome data, as well as the complex exposure measures dataset and satellite data. This position will also be involved in the preparation of Human Research Ethics applications, communications with national and international investigators, liaising with relevant organisations. The Postdoctoral Research Fellow will be involved in data analysis, write papers and assist the CIs and external experts in developing the framework, workshop and guidelines as well as the final report.

Reporting Line: The position reports to Director, Climate and Air Quality Research Unit

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level A research-only academic may include:

1. The conduct of research under limited supervision either as a member of a team or, where appropriate, independently and the production or contribution to the production of conference and seminar papers and publications from that research
2. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
3. Limited administrative functions primarily connected with the area of research of the academic
4. Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff
5. Occasional contributions to teaching in relation to their research project(s)

6. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental, school and/or faculty meetings and/or membership of a limited number of committees
7. Advice within the field of the staff member's research to postgraduate students
8. Other duties as directed from time to time

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
 - A PhD qualification in epidemiology, biostatistics, environmental health, data science, or other related fields

Knowledge and Skills

2. Demonstrated analytical and manuscript preparation skills; including a track record of refereed research publications
3. Ability to solve complex problems by using discretion, innovation and the exercise diagnostic skills and/or expertise
4. Well-developed planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines
5. Excellent written communication and verbal communication skills with proven ability to produce clear, succinct reports and documents
6. A demonstrated awareness of the principles of confidentiality, privacy and information handling
7. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
8. Advanced skills in computer programming and data analysis in R, STATA and/or Python, with the capability and willingness to learn new packages as appropriate
9. Experience in data linkage (e.g. re-gridding), causal inference, machine learning, remote sensing or mixture analysis
10. High level technical skills in data management/data merging/data analysis is essential to ensure efficient management of the multitude of datasets used for this project
11. Experience working with environmental exposure, time series data, and cohort data is a plus

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted

GOVERNANCE

Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.