

A more equitable world through better health.



POSITION DETAILS

TITLE	Mathematical Modeller / Research Assistant
CLASSIFICATION	RA2 – RA8: \$79,377 - \$101,899 (depending on experience) + super + salary packaging
LOCATION	85 Commercial Road Melbourne
REPORTS TO	Senior Research Officer
DIRECT REPORTS	Nil
LAST UPDATED	August 23

POSITION SNAPSHOT

The incumbent will undertake real-world mathematical modelling projects in infectious diseases and global health.

The position will be part of a globally based team of expert modellers, epidemiologists, economists, health and policy specialists, and computer scientists; as part of the Modelling & Biostatistics team, you will develop and apply epidemiological and costing models to address major public health issues across a range of disease areas, including COVID-19, HIV, TB, malaria, viral hepatitis, maternal and child health.

Modelling and analytical outputs will be provided to governments, policy makers, and other partners including the World Bank, Global Fund, and international health agencies, to improve health budget investment towards better decision-making and impact around the world.

KEY RESPONSIBILITY AREAS

1.	Work with the Modelling & Biostatistics team to collaboratively develop and apply mathematical models of key health and disease areas, using appropriate epidemiological, statistical, mathematical, and economic techniques.
2.	Communicate with epidemiologists, public health experts, government officials, and global health and international aid agencies.
3.	Undertake research projects with a high degree of autonomy.
4.	Contribute to and produce policy briefs, presentations, training material and documentation, scientific papers, and technical reports.
5. TRAINING	Responsible for completing all required training in line with the position / role.

KEY SELECTION CRITERIA

QUALIFICATIONS / EXPERIENCE / KNOWLEDGE / ATTRIBUTES	
1. Either: <ul style="list-style-type: none">Undergraduate degree in modelling, statistics, physics, computer science, or a similar field. OR <ul style="list-style-type: none">Undergraduate degree in health sciences, biomedicine or a similar field plus experience with data analysis, computing or modelling.	Essential
2. Experience with scientific computing and/or mathematical modelling (proficiency in Python (preferable), Matlab or similar, as well as experience in code management).	Essential
3. Excellent attention to detail and demonstrated communication skills	Essential
4. Experience in one or more of the following: Disease epidemiology, Health costing and economics, Communicable diseases, Maternal and child health or nutrition	Preferable

About Burnet Institute

Vision

A more equitable world through better health.

Purpose

Create and translate knowledge into better health so no-one is left behind.

Values

Respect, Equality, Inclusiveness, Diversity.

Who we are

Burnet Institute is an Australian-based medical research and public health institute and international non-government organisation that is working towards a more equitable world through better health.

What we do

We are committed to creating and translating knowledge into better health so no-one is left behind. We do this through engaging with and understanding the needs of a broad range of communities and stakeholders to develop laboratory-based and social research programs, policies and products that deliver better health outcomes.

Where we work



Priority countries:

Australia | Papua New Guinea | Myanmar

We also support and contribute to research and public health programs in other Asian, Pacific and African countries.

Australian Institute for Infectious Disease (AIID)

Bringing together Burnet Institute, The University of Melbourne, and the Doherty Institute with funding from the Victorian Government, the AIID is a visionary initiative designed to protect Australia and the region against infectious disease and future pandemics. As part of this exciting collaboration, a newly established state-of-the-art facility will be the new home of Burnet.



OCCUPATIONAL HEALTH AND SAFETY

The Burnet has a commitment to providing a safe and healthy workplace in accordance with the Occupational Health and Safety Act 2004. All staff are obliged to take all reasonable care to ensure that their actions do not place themselves or others at risk.

OTHER REQUIREMENTS

Evidence of full vaccination against Covid-19 will be required. The Burnet Institute is a child safe organisation. The incumbent of this position will be required to undergo a Police Check and possibly a Working with Children Check as a condition of employment. The types of contact with children can be viewed [here](#). This position involves the following contact with children (any individual aged under 18 years):

CONTACT TYPE

No Contact With Children

ENQUIRIES

For further information, please contact Dr Romesh Abeysuriya, romesh.abeyesuriya@burnet.edu.au