

## POSITION DESCRIPTION:

### SECTION A: Position Context

Position Title	Mathematical Modeller - Health
Classification	RA2 – RA4 (Academic level A) (\$74,173 - \$82,195 + super)
Location	85 Commercial Road Melbourne
Effective Date	July 2021

### Purpose:

The Research Assistant will undertake real-world mathematical modelling projects in infectious diseases and global health. This position will work as part of a team that is developing and applying epidemiological and costing models around the world across a range of disease areas, including COVID-19, HIV, TB, malaria, viral hepatitis, maternal and child health.

As part of the Modelling & Biostatistics team, you will:

- Contribute to the development and application of epidemic and economic models to address major public health issues;
- Work with a globally based team of expert modellers, epidemiologists, economists, health and policy specialists, and computer scientists to improve models;
- Undertake modelling and analytical support that 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;
- Apply innovations and analytical skills to ensure high quality deliverables in a fast-paced environment

### Supervision Reporting Relationships:

This positions' supervisor/manager	Head, Modelling & Biostatistics
Other positions reporting to <u>this</u> position	None

### SECTION B: Key Responsibility Areas

The key responsibility areas (KRAs) are the major outputs for which the position is responsible and are not a comprehensive statement of the position activities.

Key Responsibility Areas	
1.	Work with the modelling 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, maternal and child health experts, 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, scientific papers and technical reports
5.	<b>Occupational Health &amp; Safety</b> Refer to the "Burnet OHS responsibilities and roles" document for full details on specific OHS obligations and responsibilities of Managers.
6.	<b>Training</b> Responsible for completing all required training in line with the position / role.

## 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.

## SECTION C: Key Selection Criteria

Qualifications		Essential/ Preferable
Either:	<ul style="list-style-type: none"><li>Undergraduate degree in modelling, statistics, physics, computer science, or a similar field</li></ul>	Essential
	OR	
	<ul style="list-style-type: none"><li>Undergraduate degree in health sciences, biomedicine or a similar field plus experience with data analysis, computing or modelling</li></ul>	

Experience / Knowledge / Attributes		
1.	Excellent written and oral communication skills	Essential
2.	Demonstrated project experience, including the ability to successfully complete projects, both independently and as part of a team	Essential
3.	Experience with scientific computing and/or mathematical modelling (proficiency in Python (preferable), Matlab or similar, as well as experience in code management).	Essential
4.	Experience in one or more of: <ul style="list-style-type: none"><li>maternal and child health or nutrition</li><li>epidemiology</li><li>health costing and economics</li><li>communicable diseases</li></ul>	Preferable
5.	Demonstrated interest and experience in data visualization	Preferable

## Other Requirements

The Burnet Institute is a child safe organisation. The incumbent of this position may be required to undergo a Police Check or Working with Children Check as a condition of their employment.

This position involves the following contact with children (any individual aged under 18 years):

None	
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## SECTION D: Burnet Overview

Burnet Institute is a leading Australian, unaligned, not-for-profit organisation focused on achieving better health for vulnerable communities in Australia and internationally by accelerating the translation of research, discovery and evidence into sustainable health solutions.

Since 1986, Burnet has linked discovery-oriented, medical research with practical action to help solve devastating global health problems that affect the most vulnerable. This sets us apart from other organisations. Institute-wide interdisciplinary health programs - Maternal, Child and Adolescent Health; Disease Elimination; Behaviours and Health Risks, and Health Security - are at the heart of our daily decision-making. The Institute's highly diverse skill base of laboratory and field research, and technical expertise, is fostered across cross cutting disciplines of Life Sciences, Public Health and International Development.

Whilst our headquarters is in Melbourne, Australia, we also have offices in Papua New Guinea and Myanmar, and are actively involved in research and public health programs throughout Australia, the Asia-Pacific region, and Africa. Burnet is the only unaligned organisation in Australia that has dual accreditation with both the Australian National Health and Medical Research Council (NHMRC) and the Department of Foreign Affairs and Trade (DFAT).