

## POSITION DESCRIPTION:

### SECTION A: Position Context

<b>Position Title</b>	Mathematical Modeller in Health
<b>Classification</b>	RA4 - SRO3 (Academic level A or B): \$84,579 - 110,878 + super
<b>Location</b>	85 Commercial Road Melbourne
<b>Effective Date</b>	June 2022

### Purpose:

The Mathematical Modeller will lead real-world modelling projects in infectious diseases and global health. This position will be responsible for 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:

- Develop and Apply 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;
- Provide modelling and analytical support 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;
- Write high impact academic publications;
- Apply innovations and analytical skills to ensure high quality deliverables in a fast-paced environment

### Supervision Reporting Relationships:

<u>This</u> positions' supervisor/manager	Head, Modelling & Biostatistics
Other positions reporting to <u>this</u> position	Potential to manage staff

### 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.	Develop and apply of 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.	Coordinate and manage research projects with a high degree of autonomy
4.	Write scientific papers, technical reports, presentations, and grant applications
5.	Supervise and mentor junior staff

Key Responsibility Areas		
6.	People Management	<p>Ensure participation of all staff in the People Development Framework (PDF) to enhance performance and identify training, professional development and career coaching needs.</p> <p>Ensure compliance within the group in relation to all required compliance training including online and face to face training.</p> <p>Manage HR issues with the support and guidance of HR as needed.</p> <p>Manage leave within the group to ensure leave balances are kept within institute policy guidelines.</p> <p>Coach and support staff and students.</p>
7.	Occupational Health & Safety	Refer to the “Burnet OHS responsibilities and roles” document for full details on specific OHS obligations and responsibilities of Managers.
8.	Training	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/ Desirable
	Either: <ul style="list-style-type: none"> <li>Undergraduate degree in modelling, statistics, physics, computer science, or a similar field</li> <li>Undergraduate degree in health sciences, biomedicine or a similar field plus experience with data analysis, computing or modelling</li> </ul>	Essential
	PhD in modelling, statistics, epidemiology, computer science or a similar field	Desirable

Experience / Knowledge / Attributes		
1.	Excellent written and oral communication skills	Essential
2.	Demonstrated project experience, including the ability to successfully lead projects and work as part of a team	Essential
3.	Experience with scientific computing and/or mathematical modelling. Well-developed modelling skills, with proficiency in Python (preferable), Matlab or similar, as well as experience in code management.	Essential
4.	Experience in one or more of the following: <ul style="list-style-type: none"> <li>Disease epidemiology</li> <li>Health costing and economics</li> <li>Communicable diseases</li> <li>Maternal and child health or nutrition</li> </ul>	Essential
5.	A successful academic track record, including peer-reviewed publications and research impact	Desirable

## 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).

### Further Information:

For further information, please contact Dr Nick Scott.
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