

POSITION DESCRIPTION
Senior Biostatistician
Stillbirth Centre of Research Excellence

Position Title	Senior Biostatistician		
Division	Stillbirth Centre of Research Excellence (Stillbirth CRE) Genesis Maternal Fetal Medicine Research Group		
Position Purpose	This position will encompass statistical analysis of data collected on various projects across the Stillbirth CRE, focusing on reducing stillbirth and related adverse outcomes. The role will also include working closely with Prof Sailesh Kumar, who leads the Genesis Maternal Fetal Medicine Research Group, as well as other stillbirth/adverse pregnancy outcomes research groups within and outside of the Mater.		
Location	Mater Research Institute – University of Queensland		
Occupational Category and Level	ADM 9.1 – ADM 9.4		
Reporting Relationship	Reports to Prof Vicki Flenady and Prof Sailesh Kumar		
Review Date			
Next Review Due			
Staff Member		Signature	Date
Direct Supervisor	Prof Vicki Flenady Prof Sailesh Kumar	Signature	Date

1. OVERVIEW

Mater Group

As a Catholic not-for-profit ministry of Mercy Partners, Mater Group is committed to meeting the healthcare needs of our community through an integrated approach to our health education and research services, which is focused on delivering the highest quality care for our patients. For more than a century in Queensland, Mater has been defined by an abiding commitment to meeting the healthcare needs of the community.

Today, our Mission and Mercy Values continue to guide Mater people in making appropriate decisions for a sustainable, socially relevant healthcare service that is genuinely committed to the community it serves. Mater Group comprises Mater Health, Mater Education, Mater Research and Mater Foundation.

Mater Research

Mater Research (MR) is a world-class institute that is committed to conduct, enable and translate clinically relevant health research. With more than 300 laboratory and clinical researchers working across Mater's hospitals and the world-class Translational Research Institute (TRI), Mater Research is committed to working closely with Mater Health, Mater Education and our growing network of partners to turn scientific discovery into the best possible treatment, care, and outcomes for patients and our broader community.

Mater Research Institute – The University of Queensland

MRI-UQ is an alliance between Mater Research and UQ, providing strategic benefits to both partners. Mater Research brings to the alliance considerable clinical collaboration opportunities and UQ brings all its expertise as a research, education and teaching institution. Mater Research employees, through an affiliation to MRI-UQ have access to world-class research infrastructure and systems.

Translational Research Institute (TRI)

Focusing on a wide range of health and medical research areas, the Translational Research Institute (TRI) is a joint venture between Mater Research (MR) The University of Queensland Diamantina Institute (UQDI), Queensland University of Technology's Institute of Health and Biomedical Innovation (IHBI), and the Princess Alexandra Hospital's Centres for Health Research. The Translational Research Institute brings these research facilities together with the aim to improve and accelerate the translation of medical research into greater patient care.

2. HOURS

This is a 0.8FTE appointment with working hours to be agreed with one's supervisor. As with all scientific institutes, we acknowledge the need for flexibility in working hours to undertake the experimental procedures appropriate to individual projects.

3. PURPOSE OF POSITION

The successful candidate will be responsible for statistical analyses of various datasets including the Australian Perinatal dataset of almost 6M births. Some key research outcomes include perinatal mortality (stillbirth and neonatal death) and severe neonatal morbidity. The role will also include working closely with Prof Sailesh Kumar, who leads the Genesis Maternal Fetal Medicine Research Group, as well as other research groups within and external to Mater Research.

The senior biostatistician will work with researchers to undertake quality, advanced statistical analyses, provide interpretation of results, oversee quality assurance in relation to data management tasks, as well as support the statistical design of studies and trials. This position will also involve mentoring other team members, including training in data management, epidemiology and statistics. This role will also involve working with researchers, clinicians and allied health colleagues to help develop funding applications and achieve high-level research outputs.

4. POSITION DESCRIPTION

Key responsibilities of the position include:

4.1. Statistics & Data Management

- Advise and assist researchers in the design of research studies, such as cohort studies and clinical trials, including sample size considerations, modelling and trial simulation.
- Undertake advanced statistical analysis of clinical research, including large perinatal datasets
- Provide advice and support for researchers in the use of statistical software packages including: Stata, R, SPSS and Excel
- Ensure that study data are organised, securely stored and maintain privacy and confidentiality
- Supervision of junior research staff
- Contribute to the preparation of grant applications, manuscripts and other scientific publications as required
- Contribute to meetings, presentation and other related events

4.2 Safety in the Workplace

- Maintain a safe working environment and complete all mandatory training in a timely manner
- Report any potential hazards to the reporting officer
- Ensure compliance with Workplace Health and Safety (WHS) Standards including drafting of risk assessments and other required WHS documentation

4.3 Human Resources and Development

- Participate constructively in regular performance development reviews and engage in professional development opportunities where appropriate
- Adhere to all Mater Research Limited policies and procedures
- Maintain an MRI-UQ Honorary, Affiliate, or Industry Fellow appointment as required and adhere to all policies and procedures relevant to this appointment at both Mater Research and The University of Queensland.

4.4 Expression of the Mater Values

- Promote and demonstrate the mission and objectives of Mater Research Limited
- Promote and demonstrate the philosophy and values of the Mater Group
- Demonstrate personal attentiveness, sensitivity and non-judgemental manner when interacting with team members, collaborators, and research participants
- Act with integrity, speak with good judgement, and demonstrate respect for others
- Demonstrate values based decision-making and leadership.

5. PRIMARY DELEGATIONS AND ACCOUNTABILITIES

- The position will report to Professor Vicki Flenady and Professor Sailesh Kumar.
- All Mater Research staff must possess a demonstrated understanding of, and commitment to adhere to all principles in, the Australian Code for Responsible Conduct of Research, the NHMRC National Statement on Ethical Conduct in Research Involving Humans, and the Australian Code for the Care and Use of Animals for Scientific Purposes. All research will be conducted in accordance with these principles and with relevant Mater Research policies in relation to the Responsible Conduct of Research.
- The use of Institute property, equipment and technical support facilities will respect the guidelines established by the Institute.

6. INTELLECTUAL PROPERTY

Mater Research will require the assignment of all rights, in and to all discoveries, and inventions made, developed, or devised while working at or under the guidance of the Mater Research, during the term of the appointment.

7. SELECTION CRITERIA

The successful candidate will possess the following knowledge, experience, or attributes:

- Postgraduate qualifications in epidemiology, statistics or biostatistics or a related discipline
- Experience with design of research studies with a focus on statistical aspects including analytical approaches and sample size calculations
- Extensive experience with Stata, R, SPSS and Microsoft Excel.
- Highly experienced working with large clinical datasets, linked data, systematic reviews and meta-analysis .
- Demonstrated experience with data management
- Experience with people management, including managing staff performance and development

8. REVIEW

The position will be subject to mutual, regular, review through Mater's LEAP career development module.