POSITION SUMMARY

To provide high level mathematical modelling skills to a multidisciplinary infectious disease research team working on a number of NHMRC funded grants.

ORGANISATIONAL ENVIRONMENT

Overview of the Work Unit

UNSW Medicine is a national leader in learning, teaching and research, with close affiliations to a number of Australia’s finest hospitals, research institutes and health care organisations. With a strong presence at UNSW Kensington campus, the faculty has staff and students in teaching hospitals in Sydney as well as regional and rural areas of NSW including Albury/Wodonga, Wagga Wagga, Coffs Harbour and Port Macquarie.

The School of Public Health and Community Medicine (SPHCM) is internationally recognised as a leader in Public Health with particular research strengths in Epidemiology and Infectious Diseases, Health Services Management, Global Health, Indigenous Health and Primary Health Care. The School has a core focus to investigate and provide new knowledge to help inform policy, governance, organisation, work and leadership in the health sector through cross disciplinary research with both academia and industry. The School also has strong associations with research centres and institutes throughout UNSW Medicine.

Infectious Diseases is one the school research flagship areas. Under this flagship the school has multidisciplinary expertise in epidemiology, mathematical modelling, health economic evaluation and social and clinical research in infectious diseases, vaccines and infectious disease risks in special risk populations. The body of research is supported through the supervision of postgraduate students undertaking PhD; DrPH and Masters programs at UNSW.
The NHMRC research involves the use of linked administrative data collections and a prospective cohort to investigate risk factors, sequelae and health service use related to a number of notifiable infectious diseases in adults using a variety of epidemiological study designs.

Statistics

SPHCM is home to approximately 105 academic, general and research staff and works in partnership with over 200 conjoint/adjunct practitioners who act as mentors and teachers for undergraduate and postgraduate students. Many of the School’s Conjoint and visiting academics are actively involved in research degree supervision and collaborative research.

SPHCM is responsible for over 800 postgraduate coursework students enrolled in the Graduate Certificate, Graduate Diploma and Masters programs in Public Health, International Public Health and Health Management (including dual degrees) and has approximately 150 research degree students associated with the School.

Further information about the School is available at: [http://www.sphcm.med.unsw.edu.au/](http://www.sphcm.med.unsw.edu.au/)

Reporting Relationships

Supervisor's title: Professor; Head of School and Principal Researcher

Other positions reporting to the supervisor: Senior Lecturers, Lecturers, Associate Lecturers, Postdoctoral Fellows and researchers

Positions reporting to this position: research assistants

KEY DUTIES & RESPONSIBILITIES

- Analyse data sets using statistical techniques under the supervision of Principal Researcher
- Assist with the management of allocated research projects, including drafting ethics submissions and reports, data integrity, analysis and reporting of results
- Contribute to data analysis plans, drafting and submission of peer reviewed journal articles and presentation of papers at conferences
- Assist in research activities including organisation of collaborator meetings, co-ordination with collaborators, assisting in writing grant applications
- Liaise with Chief Investigators, Partner Investigators and project team
- Maintain study records and accounts
- Assist with setting priority timelines and monitoring work flow
- Conduct literature reviews and maintain Endnote databases of references
- Assist in preparing papers for submission to peer-reviewed journals including online submission
- Provide administrative and research assistance for related studies
As part of the required duties s/he will cooperate with all health and safety policies and procedures of the University and take all reasonable care that their actions or omissions do not impact on the health and safety of others in the University.

**SELECTION CRITERIA**

- Hons degree in mathematics or other relevant quantitative discipline
- Demonstrated experience in statistical analysis, including use of quantitative methods
- Experience working in infectious diseases, vaccines and vaccine-preventable diseases research
- Ability to work both independently and constructively in a team environment
- Excellent communication, organisation and presentation skills
- Knowledge of equal opportunity principles
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training

**Please note:**
It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.