The George Institute
for Global Health

Job Description

Job Description	
JOB TITLE	Senior Biostatistician
CAREER STEP	Professional/Specialist
REPORTING RELATIONSHIP	Head of Biostatistics
DIVISION	Biostatistics and Data Science Division
EMPLOYMENT DURATION	2 years (extendable)
TYPE OF EMPLOYMENT	1 FTE
DATE	August 2021

The George Institute for Global Health

We are a medical research institute affiliated with leading universities aiming to challenge the status quo in health care. With 700+ people around the world, and projects in over 40 countries, our Strategy 2025 is all about impact – specifically, the impact of The George Institute's activities on the health of millions of people, particularly those living in disadvantaged circumstances around the world.
Our strategy focuses on three key research priorities:

- Better Treatments: finding better treatments for the world's biggest health problems
- Better Care: transforming primary health care to support better health for more people
- Healthier Societies: harnessing the power of communities, governments and markets to improve health

Our innovative commercial enterprises help maximise our impact.
Here is a sample of the things we are doing to achieve our goal of having the greatest possible impact on global health:

- We are identifying better and safer treatments for our biggest killers like stroke, heart disease and high blood pressure;
- In many countries, our award winning FoodSwitch smartphone app is helping people make healthy food choices when shopping;
- In China, we ran a successful education and awareness program to reduce the amount of salt eaten by people by 25% each day
- In rural India, we have shown that mobile technology can help diagnose mental health, as well as help treat cardiovascular disease, and we're looking at similar approaches to treating chronic diseases in Indonesia and China;
- Together with Aboriginal communities in NSW, Australia, we developed an innovative community led program to assist young Aboriginal drivers attain their license, now implemented in a dozen of locations;
- We are developing an affordable dialysis machine, with potential to save millions of lives each year and transform the way kidney disease is treated globally.

Context of the Role

Responsibility for the design, implementation, conduct and reporting of medical research projects conducted by The George Institute is shared by the research divisions and the Statistics division.

The Biostatistics team is responsible for the provision of statistical expertise to support the research done at the George Institute; this includes clinical trials, meta-analyses, observational studies, surveys as well as teaching and the development of new statistical methods. Occasionally, the team also

provides services to external organisations included the ones contracted via George Clinical, the commercial arm of the George Institute.

The Role

The Senior Biostatistician is responsible for the design, analysis and reporting of medical research projects conducted by the George Institute in Australia and globally. The above position is based in Sydney and the applicant should be willing to be located in the Sydney office.

Reporting Relationships

The Senior Biostatistician will directly report to the Head of Biostatistics in Sydney. This role will have the opportunity to manage staff in the team.

Duties and Key Responsibilities

- Help design studies and develop funding applications
- Contribute to proposal and budget development
- Perform sample size/power calculations
- Lead the development of SAP - Statistical Analysis Plans
- Perform complex statistical analyses
- Manage and/or mentor more junior staff from the biostatistics and data science division
- Independently manage all statistical aspects of a project
- Coordinate a project team of biostatisticians and/or (statistical) programmers
- Provide statistical advice to Institute researchers
- Interpret and co-author study results
- Co-supervise of high-degree research students
- Keep abreast of new statistical methods
- Actively develop professional networks with peer statisticians locally and internationally
- Contribute to capacity development in Biostatistics including Machine Learning and Evidence Synthesis methods
- Act as direct point of contact with internal and external researchers
- Comply with all institute policies and SOPs as well as regulatory requirements for the programming, analysis and reporting of research projects (e.g. FDA, EMEA, TGA etc)

As a Team Member:

- Participate in special projects to improve processes, tools, systems and organisation;
- Take responsibility for personal learning and development and for setting achievable and meaningful work objectives and managing personal targets, meeting obligations of The Institute's Performance Management and Development Policy;
- Demonstrate commitment to The Institute's organisational values, including performing to an exceptionally high ethical standard and focus on integrity, collaboration and teamwork in all efforts.

Work, Health and Safety

- Comply with Work Health and Safety legislation and operate in accordance with established Occupational Health and Safety practice and procedures at the Institute;
- Promote and contribute to a safe, secure environment for staff and visitors.

Skills, Knowledge and Experience
Essential

- Masters/ Doctoral qualifications in Statistics
- 3-5 years' experience as a Senior Biostatistician in an academic/health setting or related field
- Excellent working knowledge of at least one of SAS, R and Stata software
- In-depth understanding of probability and statistics theory
- Understanding of data management principles for clinical trials and medical research
- Applied knowledge of advanced statistical models, such as generalized linear models, survival analyses and mixed models
- Experience managing projects, including project resourcing and planning
- Working knowledge of regulatory requirements for clinical trials and medical research
- Strong focus on quality and timely delivery of work.
- Well organized with good time management skills
- Strong problem solving and analytical skills
- Excellent interpersonal skills with high level of proficiency in English
- Ability to work well and flexibly i.e. autonomously, in small teams and with a wide range of varying stakeholders
- Ability to see the big picture, whilst still maintaining a focus on detail and implementation
- Ability to be flexible and adaptable in the face of changing organisational priorities and ambiguous environments