

JOB DESCRIPTION



Position Title	Research Assistant -Epidemiology Statistics	Level	A (Research Salary Scale)
Reports to (role)	TBC		
Team	Malaria Atlas Project (MAP)		
Location	Telethon Kids institute, 15 Hospital Avenue, Nedlands		

PURPOSE OF POSITION

The primary role of this position will be to assist core MAP researchers in the preparation of model inputs, implementation of workflows, and dissemination of results, including assisting writing papers for peer reviewed publication and presenting results. In addition, this role will provide support for our engagement with collaborators such as the Institute of Health Metrics and Evaluation (IHME) at The University of Washington.

KEY RESPONSIBILITIES

Key Responsibilities	Tasks required to achieve Key Responsibilities	Measures
Data gathering	<ul style="list-style-type: none"> Obtain, manage, and conduct preliminary processing and analysis on a variety of tabular datasets Find and read academic papers and reports to extract needed metrics for malaria modelling Utilize software including Excel, ArcGIS, and R to examine, manipulate, and process data and create maps Select, follow, and adapt data extraction and manipulation protocols. Be responsible with others for general IT housekeeping, including maintenance of back-ups, documentation of protocols, and review of procedures Maintain documentation on MAP's Wiki 	<ul style="list-style-type: none"> Expansion of MAP's malariometric data holdings The creation of maps, graphs, reports and other analysis Appropriate documentation Wiki entries

Collaborations	<ul style="list-style-type: none"> Understand and engage with the processes around MAP's collaboration with IHME, including uploading and downloading datasets, creating visualisations of results, and assisting with trouble-shooting activities. Maintain documentation on MAP's Wiki 	<ul style="list-style-type: none"> Uploading and downloading of relevant files to/from IHME's GBD portal. Wiki entries
Publications	<ul style="list-style-type: none"> Contribute text, maps, and figures for publications, to be credited via co-authorships Contribute to discussions and share research findings with colleagues and collaborators in partner institutions. Maintain the confidentiality of unpublished research data. 	<ul style="list-style-type: none"> The creation of materials as requested Engagement with MAP peers and collaborators Do not release confidential data
Workplace Safety	<ul style="list-style-type: none"> Take reasonable care for your own safety and health and avoid harming the safety and health of others through any act or omission at work. Identify and assess workplace hazards and apply hazard controls. Report every workplace injury, illness or near miss, no matter how insignificant they seem. Abide by Telethon Kids Institute policies and procedures. 	<ul style="list-style-type: none"> Responsibilities are embedded in work practices. Hazards are effectively managed or reported. Accidents and incidents are reported in a timely manner. All applicable safety policies and procedures are sought, understood and implemented.

ESSENTIAL CRITERIA

Qualifications:	<ul style="list-style-type: none"> A masters degree in a relevant subject area (vector-borne infectious disease epidemiology, disease vectors, Geographical Information Systems);
Essential Skills, Knowledge & Experience:	<p>Essential:</p> <ul style="list-style-type: none"> Experience in analysing, interpreting and data manipulation using a variety of software platforms; Experience of geostatistical analysis (spatial and spatiotemporal), including working with raster data and geometry files.

	<ul style="list-style-type: none"> • Excellent levels of numeracy as evidenced through your experience and/or education with the ability to use numerical analysis methods to develop algorithms and perform computations; • Demonstrated proficiency in scientific writing, with proper use of the English language, grammar, and punctuation; • Strong skills in decision-making, problem-solving, planning and organising; • A high attention to detail and willingness to diligently self-scrutinize deliverables; • Experience of ESRI's ArcGIS/ArcMAP suite of software; • Experience of Linux scripting/commands • Experience of the Python programming language in a geospatial context • Experience of R and R-studio and package development • Experience of Git or a similar source control or similar statistical packages; and • An understanding of the issues arising from working on global publications, such as The WHO's World Malaria Report or IHME's Global Burden of Disease.
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DIRECT REPORTS	N/A
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Approved by:	
Date approved:	
Reviewed by P&C:	Heather Stynes 05/09/2019