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| **JOB TITLE: Bio-statistician, Directorate of Women’s Health** |
| **JOB SUMMARY**The Bio-statistician will provide technical advice and assistance in statistical methods, data processing and computing for surveillance programmes, research and assessment activities of the Directorate of Women’s Health and the National Breastfeeding Co-ordinating Unit. The incumbent will develop templates and provide guidance and support for these activities at County and Regional Health Authority levels. |
| **REPORTS TO:** | Manager, Medical Research and Auditing  |
| **SUPERVISION GIVEN TO:** | Research Specialist |
| **DUTIES AND RESPONSIBILITES:** |
| * Maps out, develops and supervises timelines for statistical and data management activities in accordance with clinical and medical requirements
* Reviews clinical study procedures and statistical and data management documents
* Provides data and statistical management input into process development
* Prepares statistical analysis plans for projects under the Directorate for Women’s Health and the National Breastfeeding Co-ordinating Unit
* Calculates sample size requirements for clinical studies
* Writes program code to analyze data using statistical analysis software.
* Writes detailed analysis plans and descriptions of analyses and findings for research protocols or reports
* Plans or directs research studies related to life sciences
* Prepares tables and graphs to present clinical data or results
* Monitors clinical trials or experiments to ensure adherence to established procedures or to verify the quality of data collected
* Draws conclusions or make predictions based on data summaries or statistical analyses
* Designs surveys to assess health issues
* Develops or implements data analysis algorithms
* Designs or maintains databases of biological data
* Collects data through surveys or experimentation
* Develops or uses mathematical models to track changes in biological phenomena such as the spread of infectious diseases
* Designs research studies in collaboration with physicians, life scientists, or other professionals
* Reviews clinical or other medical research protocols and recommend appropriate statistical analyses
* Applies research or simulation results to extend biological theory or recommend new research projects
* Analyzes clinical or survey data using statistical approaches such as longitudinal analysis, mixed effect modelling, logistic regression analyses, and model building techniques
* Receives, validates, analyses, interprets and disseminates mortality data from RHA’s and Ministry of Health Reports
* Performs related work as may be required.
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| **KNOWLEDGE, SKILLS AND ABILITIES:** |
| **KNOWLEDGE:** | * Knowledge of protocol procedures in the Health Sector
* Knowledge of local clinical practice
* Competent in experimental design, descriptive and inferential statistics, biometrics and computer systems
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| **SKILLS AND ABILITIES:** | * Advanced skills with Microsoft applications which may include Outlook, Word, Excel, PowerPoint or Access and other web-based applications
* Ability to conduct research, trials and experiments
* Ability to produce complex documents, perform analysis and maintain databases
* Excellent communication, presentation and networking skills.
* Ability to establish and maintain effective working relationships with internal/external partners.
* Ability to observe and maintain strict patient and physician confidentiality
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| **MINIMUM EXPERIENCE AND TRAINING:** |
| * A Master’s degree in Statistics or Mathematics
* Five (5) to seven (7) years of experience in the design and analysis of research studies.

**OR*** Any equivalent combination of experience and training.
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