



DATA MANAGER

(1-Year Contract)

CENTRE FOR INFECTIOUS DISEASE EPIDEMIOLOGY AND RESEARCH SCHOOL OF PUBLIC HEALTH FACULTY OF HEALTH SCIENCES

UBOMI BUHLE is a South African research and surveillance project which aims to establish a central pregnancy exposure registry by pooling data from over 15 sentinel sites across 3 provinces of South Africa (Western Cape, KwaZulu Natal and Gauteng). The UBOMI BUHLE project is looking to appoint a Data Manager who will be responsible for the development and day-to-day management of the UBOMI BUHLE central pregnancy registry. This entails liaising with participating sites to receive and harmonise large maternal-child cohort datasets quarterly, developing and undertaking data quality checks, and liaising with sites on quality and errors. Both data engineering and data science competencies will be required. The data manager would also be responsible for ensuring the security of the database and the data housed within by adhering to the data sharing protocol. The current database includes patient-level data on >45 000 pregnant people.

The post would suit someone with an excellent understanding of database management in multiple database environments, meticulous attention to detail and good interpersonal and communication skills. Experience of health information systems, training in medical informatics and experience in a data centre would be additional recommendations.

Responsibilities include:

- Develop, construct, test and maintain registry database architectures.
- Develop data set processes for data modelling and mining to facilitate data sharing with the UBOMI BUHLE Senior Data Scientists
- Responsible for all day-to-day data management activities
- Assist the Central Data Analyst with setting up standard procedures for data processing and management.
- Employ sophisticated analytics programs (such as STATA and/or R) and statistical methods to prepare data for use in prescriptive modelling.
- Leverage large volumes of data to provide data and develop insights for regional and multiregional analyses in line with complex analytic proposals.
- Automate work through the use of prescriptive analytics.
- Provide data management support to staff and students within CIDER.
- Maintain strong working relationships with site-level data managers (employed by WRHI, HST, VIDA, ESRU) including support where appropriate.

Requirements include:

- NQF6 or an advanced diploma in an appropriate field: information systems, computer science, statistics, database management.
- Excellent data management knowledge and skills in multiple database environments including:
 - 2 years' experience with Structured Query Language and data query tools.
 - 2 years' experience of Data Quality Management experience and use of Data Quality Management Tools.
- Being numerate, demonstrating high levels of attention to detail and a keen interest in working with and validating data.
- Experience in using STATA and/or R.
- The ability to work in a team.
- The ability to learn and develop programming skills

The following would be advantageous:

- Experience using REDCap; exposure to health/medical data
- Experience working with large datasets
- Experience in medical informatics
- Experience with Power BI or DHIS

The annual cost of employment is between **R 547 299** and **R 643 880**. This post is a one-year appointment, with a further 12 months renewable on condition of satisfactory progress and available funding.

To apply, please e-mail the below documents in a **single pdf file** to cideradmin@uct.ac.za

- UCT Application Form (download at <http://forms.uct.ac.za/hr201.doc>)
- Cover letter, and
- Curriculum Vitae (CV)

Please ensure the title and reference number are indicated in the subject line. An application which does not comply with the above requirements will be regarded as incomplete.

Telephone: 021 404 7642
Reference number: E231041

Website: <http://www.publichealth.uct.ac.za>
Closing date: 13 November 2023

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UCT reserves the right not to appoint.