COLLEGE OF HEALTH SCIENCES
SCHOOL OF NURSING AND PUBLIC HEALTH
CENTRE FOR RURAL HEALTH
HOWARD COLLEGE CAMPUS

RESEARCH INTERNSHIP (x2 Interns)
(12- Month)
REFERENCE NO. CRH /5050

ARISE NETWORK PROJECTS

The Africa Research, Implementation Science, and Education (ARISE) Network Projects are based at the Centre for Rural Health (CRH) within the School of Nursing and Public Health at the University of KwaZulu-Natal (UKZN). The ARISE Network is a multi-country research network focusing on adolescent health. Eight Health and Demographic Surveillance Systems (HDSS) sites in seven sub-Saharan African countries (South Africa, Burkina Faso, Ethiopia, Ghana, Nigeria, Tanzania, and Uganda) contribute data and participate in collaborative multi-country research projects led by ARISE Network researchers. The Umlazi Surveillance Initiative to Nurture Grassroots Action (USINGA) HDSS is the South African ARISE Network site located in Umlazi Township, situated south of Durban.

The UKZN School of Nursing and Public Health, in collaboration with ARISE Network and USINGA HDSS, has seed funding (research internship) opportunity for students who are pursuing a Master's in Statistics, Biostatistics, Data Science, or Health Informatics to build a career in health data science and to advance adolescent health and population science research.

The seed funded students will:
- Conduct Master's research on any ARISE projects they find interesting
- Contribute to adolescent health and population science research
- Gain real-world experiancial knowledge in data analysis, data management and big data analytics
- Shadow data managers and scientists, to learn and perform data sourcing, wrangling, cleaning, biostatical analyses, and database upkeep.
- Work with real large datasets generated through NUTRINT and DASH projects and USINGA surveillance data
- Collaborate with and learn from ARISE researchers
- Develop meaningful relationships with diverse ARISE Fellows and USINGA researchers.

Essential Requirements
- Holders of an Honours degree in Statistics, Biostatistics, Data Science, or Health Informatics.
- Have the academic achievement of >65% in Honours degree.
- Be registered for a full-time Masters .
- Have skills in data management, programming, machine learning, big data processing, data analysis and visualization,
- Have excellent organisational skills and attention to detail.
- A strong foundation in mathematics, statistics or computing
- Good skills in computer programming, with experience of at least one high-level programming language (e.g. Python/R)
- Ability to work both independently and collaboratively

Advantages
- Interesterted in public health, biostatistics, health data science.
- Experience with Structured Query Language and data query tools.
- Experience of Data Quality Management experience and use of Data Quality Management Tools.

- Willingness to work in a multidisciplinary team.

Application format

The closing date for receipt of applications is <mark>25 October 2024.</mark>

Applicants are required to submit;

- A one-page cover letter briefly describing their suitability and research interests,
- A detailed CV, highlighting their experience in each of the minimum requirements listed above, together with the name, telephone number and e-mail address of two referees.
- All tertiary qualification certificates and academic transcripts
- A copy of ID or passport.

Applications must be sent directly to Mr. Themba Manqele, at Manqelet@ukzn.ac.za

Please use the email subject heading: **Application for Masters Project Seed Funding: ARISE projects**

Enquires can be directed to <mark>Dr. Jabulani Ncayiyana, at NcayiyanaJ@ukzn.ac.za</mark>

Terms of appointment and selection process

The positions will be offered in compliance with admission policies of the University of KwaZulu-Natal who are available to comment on your academic and research competence or potential.