



UNIVERSITY OF
KWAZULU-NATAL
INYUVESI
YAKWAZULU-NATALI



PhD Fellowships - 2019 Flagship Research Project in Durban, SA.

“Flagship projects, which are trans-disciplinary in scope, are an institution’s highest impact and most prestigious research project. They are essentially big ideas, big science for big impact!” UKZN’s Vice Chancellor.

PhD fellowship in Precision Medicine I

This project has three main aims: i) To characterize host and viral genetic and epigenetic mechanisms associated with acquisition of HIV; ii) To determine the clinical consequences, including HIV acquisition, disease development, morbidity and mortality; and iii) To design and develop precision health approaches to prevent acquisition and progression of disease, and emergence of drug resistance. As part of this project the fellows will get training in the analysis of epidemiological, clinical, social and genomic data. We are looking for clinicians, bioinformaticians, statisticians, epidemiologists and/or social scientists with great potential.

PhD fellowship in Precision Public Health II

This project aims to generate large geographically indexed HIV, TB and cancer datasets in South Africa. The Post-Doc and PhD fellows will apply advanced geospatial analysis techniques and molecular epidemiology and geographical analysis techniques to identify “hotspots” in space-time and describe the characteristics of HIV, TB and HPV transmission networks and its impact on the development of cancer. These results will be combined with detailed demographic information in order to identify patterns of inter- and intra-community transmission in the study populations. We are looking for geographers, statisticians, public health epidemiologists and/or phylogeneticists with great potential.

He/she will receive outstanding training and be mentored by leading scientists, who commonly publish in some of the top biomedical journals (i.e. Science, Nature, Lancet and NEJM) and who have access to high quality data. PhD fellows will be awarded a 3 years fellowship that include an stipend and all fees for the degree. For Interested applicants send an application, which should contain a CV and a motivation letter (max. 500 words) **by 28 February 2019** to Mrs. Gugulethu Mkhize Email: MkhizeG5@ukzn.ac.za, Tel: 031 260 4198, <http://www.krisp.org.za>

THE PREMIER UNIVERSITY OF AFRICAN SCHOLARSHIP