## Bioinformatics Knowledge Transfer Programme (KTP) for Human and Capital **Development in South Africa**



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expertise hinders scientific research and sustain- cal capacity, and strengthen the quality of local able growth in Africa. This largely owes to underdeveloped infrastructures coupled with rare and depleted expertise that can facilitate skills will work with an expert using a 'hands-on' aptransfer, including slow internet services, limited access and availability of life science research apparatus, and few organised activities that support knowledge expansion. Further compounding the problem is that individuals with some bioinformatics knowledge rarely collaborate with other experts on the African continent and rather look to international collaborative opportunities. This in turn decreases knowledge sharing and capacity development in Africa. The KTP aims to address this problem to develop and advance bioinformatics skill levels in Africa. KTP functions by acquiring the services of global experts to provide expertise and guidance to local research projects. Through this framework, KTP

A shortage of practical bioinformatics skills and aims to promote knowledge exchange, grow loresearch data with the help of experienced and accredited bioinformaticians. KTP participants proach to ensure that knowledge transfer occurs in a relevant environment using applicable examples. Trainees benefit from reduced training costs, exposure to a professional biotech environment and access to bespoke bioinformatics support. Experts gain exposure and experience in an African context, are afforded an opportunity to publish or patent research findings, and establish long-term collaborative relationships. The KTP recognises that input from global experts will help to ensure sustainable bioinformatics capacity development in Africa and contribute towards the identification of solutions to African problems.