



UNIVERSITY of the
WESTERN CAPE



SANBI
South African National
Bioinformatics Institute

South African National Bioinformatics Institute

Software Developer (Three-Year Contract)

The South African National Bioinformatics Institute (SANBI) at the University of the Western Cape is South Africa's leading bioinformatics institute and is funded through the Medical Research Council. A recently awarded MRC grant has initiated a cutting edge Tuberculosis data integration project. As part of this research we will develop computational tools to analyze large volumes of genetic data and build data management tools. These tools allow biologists to rapidly analyze their data and therefore we are actively porting these tools to user-friendly web-interfaces with data management functionality.

We are currently seeking: two developers to drive the development of web-tools in an inter-disciplinary research and development environment. The software developer role will allow the incumbent to develop tools that will have immediate impact on public health across the African continent, with the opportunity to gain experience with cutting edge technologies and concepts such as NOSQL, graph databases (Neo4J) and the Semantic Web.

The appointee will be expected to: develop web-interfaces for computational analytical pipelines, integrate the system with high-performance computing environment at SANBI, develop a backend database for storage of input data and results, development of authentication APIs for secure data access and interface with bioinformaticians to improve performance of analytical code.

Experience required (essential): CSS/HTML/JavaScript/jQuery/AJAX, industry experience in at least three of: Perl, Python, Ruby, C/C++, C# and Java, experience of development on UNIX/Linux platforms, including shell scripting and MySQL database development.

For further information (but not applications) about this position, please contact Professor Alan Christoffels at alan@sanbi.ac.za or Dr Junaid Gamielidien at junaid@sanbi.ac.za

Software Developer (Two-Year Contract)

The South African National Bioinformatics Institute (SANBI) at the University of the Western Cape is South Africa's leading bioinformatics institute and hosts the DST/NRF Research Chair in Bioinformatics and Public Health Genomics. The Research Chair activities at SANBI use computational approaches to study the interaction of host and pathogens in the context of diseases such as Tuberculosis, Malaria and Trypanosomiasis. As part of this research we have been developing computational tools to analyze large volumes of genetic data. These tools allow biologists to rapidly analyze their data and therefore we are actively porting these tools to user-friendly web-interfaces with data management functionality.

We are currently seeking: a developer to drive the development of web-tools in an inter-disciplinary research and development environment. The software developer role will allow the incumbent to develop tools that will have immediate impact on public health across the African continent.

The appointee will be expected to: develop web-interfaces for computational analytical pipelines, integrate the system with high-performance computing environment at SANBI, develop a backend database for storage of input data and results, development of authentication APIs for secure data access and interface with bioinformaticians to improve performance of analytical code.

Experience required (essential): CSS/HTML/JavaScript/jQuery/AJAX, industry experience in at least three of: Perl, Python, Ruby, C/C++, C# and Java, experience of development on UNIX/Linux platforms, including shell scripting and MySQL database development.

For further information (but not applications) about this position, please contact Professor Alan Christoffels at alan@sanbi.ac.za

In your application you are encouraged to highlight your strengths as Software Developer also include anything else that you feel may be pertinent to the Selection Panel by forwarding your covering letter and detailed curriculum vitae accompanied by a research statement, as well as the names and full contact particulars (i.e. e-mail & postal addresses, telephone & cell numbers) of at least three referees, together with copies of your ID and highest qualification, to: Mr Clement Trout, Human Resources Department, University of the Western Cape, Private Bag X17, Bellville 7535, or via e-mail to ctrout@uwc.ac.za (fax +27 21 959 1466).

In line with the University's commitment to diversifying its workforce, applications from designated groups will be given priority consideration. The University reserves the right not to make an appointment or to make an appointment at a lower level. We will communicate with shortlisted candidates only.

A place of quality
a place to grow from hope
to action through knowledge