



**University of Cape Town**

Scientific Computing Research Unit (SCRU) and Department of Chemistry

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## Doctoral in Computational Science - 2019

The Scientific Computing Research Unit invites students with a Master's Degree in Chemistry/Biochemistry/Molecular Biology along with a minimum of a full first year mathematics credit, to apply for a Doctoral Degree Scholarship in Computational Science.

The successful incumbent will be expected to contribute to the interdisciplinary research projects conducted within the Scientific Computing Research Unit (SCRU). The research is an interlinking of computation modelling and experimental enzymology. The project is centred on developing Glycomimetic Glycosyltransferase Inhibitors for Breast Cancer Treatment. The computations comprise of bioinformatics, cheminformatics and enzyme reaction dynamics. The experiments comprise of Michaelis-Menten kinetics, enzyme inhibitors, enzyme assay optimisation and protein expression.

### Pre-requisites:

A Master's degree in one or more of the following domain disciplines: chemistry, molecular and cellular biology. PhD candidates should have senior credits in Computer Science or a masters level training in Enzymology/ Bioinformatics

### Doctoral Degree Scholarship:

The value of the scholarship is R100 000 per annum, renewed for a second year pending mutual agreement and satisfactory progress. The scholarship is funded by the National Research Foundation (NRF) and Department of Science and Technology (DST) and are open to **South African students and permanent residents of South Africa only**. There are a very limited number of scholarships available to international students.

Online application forms are available on the Scientific Computing Research Unit Website: <http://www.scientificcomputing.com> and should include; a CV, list of publications (if applicable), academic transcripts and contact details for two referees.

**Closing date for applications is 31 March 2019.**

Please contact Ms Lydia Dreyer at the Scientific Computing Research Unit for further information.  
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