



Postdoctoral Fellowship in Molecular Modelling: Glycoinformatics

The Carbohydrate Vaccine Group, within the Department of Computer Science, University of Cape Town (UCT) is looking to recruit an outstanding candidate for a post-doctoral researcher position. The researcher will work within the High Performance Computing Lab and will be based in Cape Town.

Research focus area

The Carbohydrate Vaccine Group investigates the conformations and dynamics of microbial polysaccharides. The lab's research focus is in the area of computational glycochemistry, using molecular modelling methods to investigate the conformation and interactions of microbial carbohydrates playing key roles in infection and disease. The lab has strong ties with the efforts to develop effective conjugate vaccines.

Value and Tenure:

The value of the fellowship is fixed at R320 000 per annum and is a full-time position, based in Cape Town, for an initial period of one year, with possible extension to two years. No relocation expenses are available. The fellowship carries no benefits and a directive for tax exemption will be applied for by UCT on behalf of the successful candidate. During the tenure of the Fellowship, the fellow will be directly responsible to principal investigators Prof. Michelle Kuttel and Prof. Neil Ravenscroft. As a postdoctoral research fellow in the department of Chemistry at the University of Cape Town, the fellow is also responsible to the Head of Department and to the Dean of Science.

Conditions and Eligibility:

Both South African and foreign candidates are eligible. Applicants must have completed their doctoral study in the last five years. Applicants may not previously have held full-time academic posts.

- The applicant will be expected to have an outstanding educational profile in molecular modelling/computational chemistry, with evidence of interest and an ability to undertake research in this field.
- Experience with carbohydrate modelling will be an advantage, but is not required.
- The successful candidate will be expected to publish at least two journal publications in DoE accredited journals per year during the fellowship tenure.
- The successful candidate will be required to enter into a Memorandum of Agreement with the University of Cape Town and a Memorandum of Understanding with his/her Principal Investigator.

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Application requirements:

Applications must include the following:

- A covering letter explaining the candidate's suitability and experience, as well as his/her availability.
- The applicant's full curriculum vitae and a full list of publications.
- The names and contact details of at least two academics who have taught, supervised or worked alongside the applicant.
- Certified copies of all academic transcripts (undergraduate, Honours (if (applicable), Masters (if applicable) and PhD).

All applicants are subject to the policies, procedures and rules according to the postdoctoral sector at the University of Cape Town.

Application deadline

The official call is scheduled to open by 25th February 2019 and the expected deadline is 11th March 2019. Potential candidates are encouraged to contact A/Prof Michelle Kuttel (mkuttel@cs.uct.ac.za), including a CV, academic transcript and a research proposal.

The University of Cape Town reserves the right to make no awards at all, to cancel the award if the conditions are not met, and to effect changes to the conditions of the award. The University of Cape town reserves the right to disqualify ineligible, incomplete and/or inappropriate applications.

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