



COMPUTATIONAL SCIENCE POSTDOCTORAL RESEARCH FELLOWSHIPS - 2019

The Scientific Computing Research Unit (SCRU) invites highly motivated individuals to apply for Postdoctoral Research Fellowships.

Scope of research:

The successful applicants may select from one of the following research areas:

- Enzyme Reaction Dynamics Modelling
- Machine Learning as Applied to Cancer Genetics and Chemical Biology
- Bioinformatics as Applied to Cancer Genetics and Chemical Biology
- Molecular Dynamics Software Development

Academic Conditions:

Applicants must have:

- a PhD degree postdoctoral in an area of Scientific Computing, Bioinformatics or Structural Biology. Research fellowships are only available to individuals who have achieved the doctoral degree within the past 5 years

The following would be advantageous:

- undergraduate training in Chemistry/Biochemistry/Bioinformatics/Computer Science with significant exposure to Physics/Computer Science/ Applied Mathematics/Statistics;
- excellent programming skills in Python and Fortran 90/C++ (with CUDA and/or OpenCL),
- experience in Software design and
- evidence of a publication record

General Conditions:

- Applicants may not have held any prior professional or academic posts;
- Successful applicants will be required to comply with the university's policies and practices for the postdoctoral sector;
- The University of Cape Town reserves the right to:
 - disqualify ineligible, incomplete and/or inappropriate applications;
 - change the conditions of award or to make no awards at all;
- the fellowships do not include any benefits or allowances, and
- the successful candidate will be required to register as a Postdoctoral Research Fellow at UCT by 1 April 2019 or earlier.

Value and tenure:

The fellowship is valued at R220 000 per annum. The fellowship may be renewed for a second year depending on satisfactory progress and mutual agreement.

Applications:

Must be made online at: <http://www.scientificcomputing.com> The following documents are required:

- a letter of application in which the candidate's research interests are outlined;
- a Curriculum Vitae, including a list of publications;
- certified copies of all academic transcripts (no certificates); and
- the names and contact details of two academic referees who have taught/supervised the applicant.

Closing date for applications is 31 March 2019

Enquiries:

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