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:

a) Enzyme Reaction Dynamics Modelling  
b) Machine Learning as Applied to Cancer Genetics and Chemical Biology  
c) Bioinformatics as Applied to Cancer Genetics and Chemical Biology  
d) 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](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.  
Tel: +27 21 650-2568, email: adminscru@uct.ac.za