



UNIVERSITY OF CAPE TOWN



Department of Molecular and Cell Biology

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Postdoctoral Position in Bioinformatics (Noncoding RNA and RNA Therapeutics)

Supervisor: Dr Caroline Ross

Start date: February 2026

Duration: 2 years

Funding: National Research Foundation, R320,000 per year

About the role

Dr Caroline Ross invites applications for a Postdoctoral Research Fellow in bioinformatics. The fellow will lead analyses of next generation sequencing datasets to study gene regulation in various human diseases.

Key responsibilities

- Design and execute analysis pipelines for whole genome sequencing, RNA-seq, de novo and reference-guided transcriptome assembly, and Hi-C data
- Integrate multi-omics datasets to generate testable hypotheses
- Write clean, reproducible code and maintain version-controlled repositories
- Prepare figures, reports, and manuscripts, and present findings at group and departmental meetings
- Contribute to mentoring of students and to an open, collaborative lab culture

Qualifications and skills

- PhD in Bioinformatics, Computational Biology, Genomics, Computer Science, or a closely related field, awarded or to be awarded by the start date
- High competency in programming in R, Python, or Java
- Demonstrated experience with NGS data analysis, including WGS and RNA-seq
- Familiarity with transcriptome assembly and Hi-C analysis

- Proficiency with Linux environments, workflow tools, and version control

What we offer

- Fully funded postdoctoral fellowship for two years
- Opportunity to drive high-impact projects with access to institutional HPC resources
- Supportive mentorship and professional development, including publishing and grant writing

How to apply

Email a single PDF to Dr Caroline Ross at caro.ross@uct.ac.za with the subject line **Postdoc Application, Bioinformatics**. Include:

1. A one-page cover letter outlining fit and availability
2. CV with publication list and contact details of two referees
3. One or two representative publications or preprints