



## SENIOR LECTURER: HUMAN GENETICS/ BIOINFORMATICS

(Permanent position)

**DIVISION OF HUMAN GENETICS**

**DEPARTMENT OF PATHOLOGY**

**FACULTY OF HEALTH SCIENCES**

The Division of Human Genetics seeks to fill an academic position at **Lecturer/Senior Lecturer** level on a permanent basis as soon as possible. The Division provides preclinical training to the MBChB program, of which human genetics/genomics is integral in the teaching. The Division has a strong research focus that encompasses genomics, molecular, and bioinformatic approaches to investigate human diseases including but not limited to genetic susceptibility to cancer, pharmacogenomics, genetic susceptibility to blindness, hearing loss and rare disorders. The successful candidate will be expected to develop and teach courses in Human Genetics and Bioinformatics specifically databasing and semantics (online and face to face) and to supervise postgraduate students. Furthermore, the candidate will be expected to carry out research and to contribute to Divisional and Departmental administration. **The level of employment will depend on the candidate's experience, and track record of academic productivity (i.e. formal teaching/training, courses designed/convened, postgraduate students graduated, independent research grants and international peer reviewed publications).**

### Requirements:

- PhD in Human Genetics, Bioinformatics, or closely related discipline, with extensive formal training and experience in Bioinformatics
- At least three years postdoctoral research experience in Human Genetics
- A proven track record of peer-reviewed research publications in Human Genetics and Bioinformatics
- Experience in preparing and delivering courses to postgraduate and undergraduate students (eg. Genetic Data Analysis and fundamentals of Human Genetics)
- Course administration, course convening and participation in curriculum design
- Proficiency in programming languages applicable to scalable data analysis
- Proficiency in software and database development
- Experience in cluster/cloud computing
- Experience in securing independent research funding
- Demonstrated experience in supervising or co-supervising postgraduate students
- A track record of teaching Human Genetics/ Bioinformatics at tertiary level

### Advantageous:

- Demonstration of extensive research experience (e.g. conference presentations, research visits, establishment of external scientific networks)
- Experience in managing a team of Bioinformatics post-graduate students
- Knowledge of statistical genetics.
- Capacity to apply Bioinformatics across a broad range of application areas
- Experience in Clinical Genomics

### Responsibilities:

#### Teaching

- Prepare and deliver lectures and tutorials in Human Genetics to undergraduate and postgraduate students
- Prepare and teach course in the BMedSc Honours program
- Course administration and participation in the Curriculum design teams
- Convenorship of postgraduate Human Genetics/bioinformatics courses and programs

#### Research

- Contribute to collaborative research projects in the Division and build an independent research group in a field relevant to the Division of Human Genetics
- Conceptualise, lead and execute postgraduate and postdoctoral research projects
- Supervise postgraduate students
- Mentor postdoctoral fellows
- Develop/expand research collaborations in the Division, department, Faculty, Nationally, and Internationally
- Raise research funding, apply for grants from appropriate national and international funding bodies
- Publish research in accredited peer-reviewed journals

Leadership, management and administration

- Convenorship of postgraduate programs in Human Genetics
- Perform administrative functions at Divisional, Departmental, Faculty, and University, as needed
- Perform administrative functions related to teaching and research projects
- Contribute to the transformation imperative of the University of Cape Town

Social Responsiveness

- Translate research findings and teaching practice into community, for the benefit of the public, where relevant
- Raise awareness of the relevance of research within the context of health and disease

The annual cost of employment, including benefits:

- **At Lecturer level: R 805 385**
- **At Senior Lecturer level: R 968 905**

**To apply**, please e-mail the below documents in a **single pdf file** to Ms Tracy Moore at [recruitment05@uct.ac.za](mailto:recruitment05@uct.ac.za)

- UCT Application Form (download at <http://forms.uct.ac.za/hr201.doc>)
- Motivation letter that speaks to the specific requirements of the position, and
- Curriculum vitae (CV)

Please ensure the title and reference number are indicated in the subject line.

An application which does not comply with the above requirements will be regarded as incomplete.

Only shortlisted candidates will be contacted and may be required to undergo assessments.

**Telephone:** 021 650 5405 **Website:** [www.health.uct.ac.za](http://www.health.uct.ac.za)

**Reference number:** E220454 **Closing date:** 23 December 2022

*UCT is a designated employer and is committed to the pursuit of excellence, diversity and redress in achieving its equity targets in accordance with the Employment Equity Plan of the University and its Employment Equity goals and targets. Preference will be given to candidates from the under-represented designated. Our Employment Equity Policy is available at [www.uct.ac.za/downloads/uct.ac.za/about/policies/eepolicy.pdf](http://www.uct.ac.za/downloads/uct.ac.za/about/policies/eepolicy.pdf).*

UCT reserves the right not to appoint.