

HR191	POSITION DESCRIPTION	 UNIVERSITY OF CAPE TOWN IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD
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NOTES

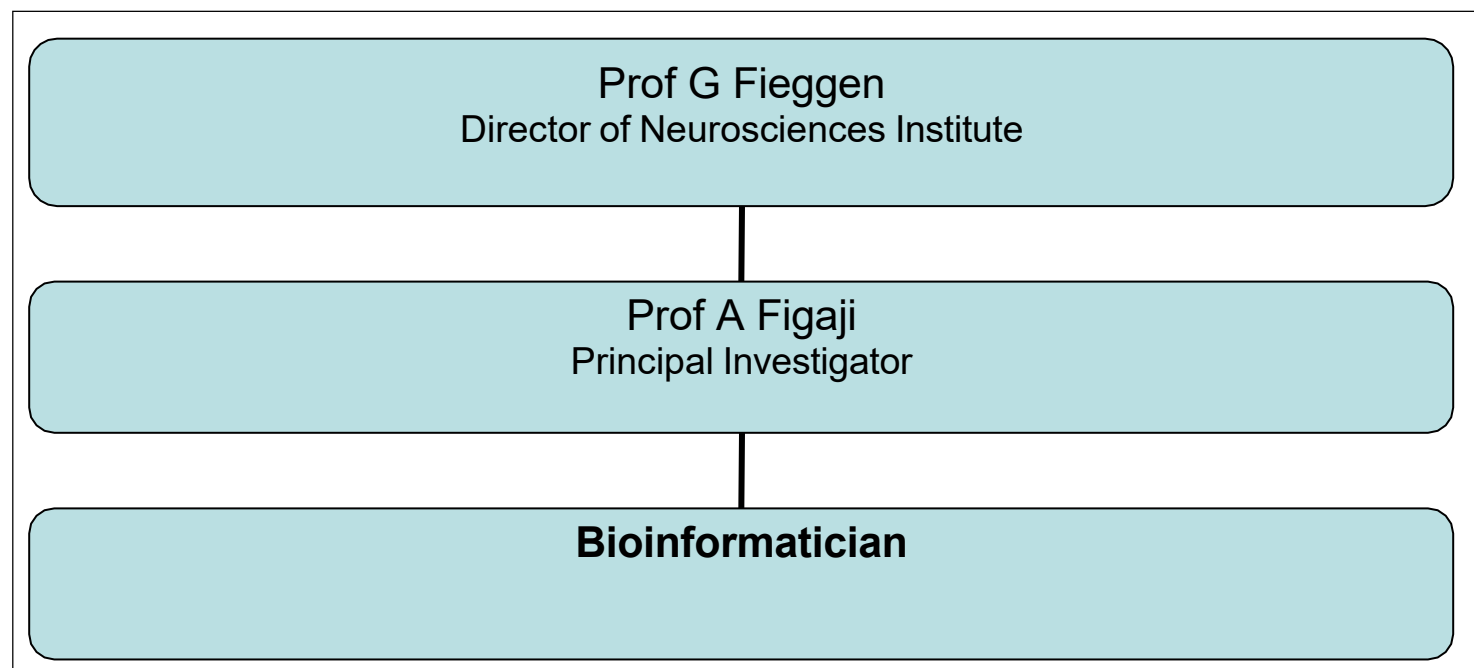
- Forms must be downloaded from the UCT website: <http://forms.uct.ac.za/forms.htm>
- This form serves as a template for the writing of position descriptions.
- A copy of this form is kept by the line manager and the position holder.

POSITION DETAILS

Position title	Bioinformatician		
Job title (HR Practitioner to provide)			
Position grade (if known)	Lecturer	Date last graded (if known)	
Academic faculty / PASS department	Health Sciences		
Academic department / PASS unit	Neuroscience Institute		
Division / section	Neurosurgery		
Date of compilation	30 July 2025		

ORGANOGRAM

(Adjust as necessary. Include line manager, line manager's manager, all subordinates and colleagues. Include position grades)



PURPOSE

The African Brain Child group was awarded a prestigious Wellcome Discovery grant to examine high frequency data collection and sampling in patients with brain injury. The main purpose of this position is to employ a suitably qualified individual who is interested in analysis of large neuroscience datasets to meet the objectives of this grant and actively and independently participate in all aspects of the African Brain Child research group. This position may include complex data analysis training at the Francis Crick Institute in London and PhD opportunities at UCT.

CONTENT

Key performance areas		% of time spent	Inputs (Responsibilities / activities / processes/ methods used)	Outputs (Expected results)
1	Research	70	- Conduct the specified research projects, generate and analyse data within specified time frames to meet grant objectives. - Write up and contribute to research for publication and present at local and international meetings. - Keep abreast of major trends and developments in biostatistics. - Contribute to progress report and grant writing. - Provide statistical input into grants, research papers, study protocols and dissertations. - Contribute to and participate in overall research group activities. - Prepare and assist with research-related reports (including ethics applications).	- Grant progress reports. - Produce and submit research outcomes/articles to peer-reviewed journals for publication. - Present research at local and international meetings - Communicate to staff and students, new methodologies, and trends in biostatistics.
2	Teaching and Learning	15	- Train, supervise and provide mentorship for postgraduate students and staff in the African Brain Child research group and in the Faculty of Health Sciences as required. - Participate in project specified training, including the possibility of complex data analysis training at the Francis Crick Institute in London.	- Conduct training workshops for postgraduate staff and students. - Present relevant research articles relating to area of expertise at research meetings. - Mentor and assist postgraduate students in their data analysis and preparation of their dissertations. - Attend training required for achievement of grant objectives.
3	Leadership, Management and Administration	10	- Promote strong networks to accomplish research objectives. - Be responsible for the initiation, development and writing of grant proposals. - Support and attend research-related meetings, workshop and seminars in the African Brain Child research group and broader UCT community. - Contribute to the administration, purchasing and procurement as required.	- Establish relationships with stakeholders, collaborators and experts in the field internal and external to UCT. - Assist in the identification, writing and submission of research grants. - Involvement in research related activities with African Brain Child and UCT community.

4	Social Responsiveness	5	• Liaise and engage with media and/or relevant stakeholders to help translate research findings for public benefit.	• Media presence (including traditional and/or social media) • Active participation in outreach and/or training activities targeting the broader community (e.g., Workshops or seminars)
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MINIMUM REQUIREMENTS

Minimum qualifications	Masters degree from any field related to neuroscience, bioinformatics, biomedical science, computer science, statistics and mathematics.			
Minimum experience (type and years)	Candidates with a minimum of Master's degree with 2-3 years of postgraduate experience will be considered if the degree and experience is relevant to the scope of research described above.			
Skills	Strong background in the analysis of large datasets. Competency in programming languages including, but not limited to Python and R. SQL will be an advantage. Demonstrated ability to conduct meritorious research. Good communication, strong teamwork and potential leadership skills.			
Knowledge	Research methodology, biomedical science, neuroscience, bioinformatics or data science.			
Professional registration or license requirements	NA			
Other requirements (If the position requires the handling of cash or finances, other requirements must include 'Honesty to handle cash or finances'.)	Candidates must have their own reliable transport and are expected to work on site.			
Competencies (Refer to UCT Competency Framework)	Competence	Level	Competence	Level
	Building interpersonal relationships	3	Teamwork / collaboration	3
	Analytical thinking / Problem solving	4	University awareness	2
	Information management	4	Building partnerships	3
	Planning and organizing / work management	4	Conceptual thinking	4
	Strong written and verbal communication skills	3	Project management	3
	Computer literacy and numeracy	4	Conflict management	3
	Scientific writing skills	3	Adaptability/flexibility	3
	Stress tolerance	3	Creativity and innovation	3

SCOPE OF RESPONSIBILITY

Functions responsible for	Conducting research and data analysis, co/supervising students, assisting with grant writing, presenting at conferences research meeting and workshops, training staff and postgraduate students, academic publications
Amount and kind of supervision received	Opportunities for training at and input from collaborators in data science
Amount and kind of supervision exercised	Postgraduate student supervision and training
Decisions which can be made	Project specific software and hardware needs, research and analytical methodology, data collection, data analysis
Decisions which must be referred	Finances, purchasing and procurement, personnel, research outputs, data and protocol sharing

CONTACTS AND RELATIONSHIPS

Internal to UCT	African Brain Child research group leader and collaborators
	African Brain Child Senior Researcher and Research Fellows
	African Brain Child Laboratory Manager
	African Brain Child Research Co-Ordinator
	African Brain Child Principal Scientific Officer
External to UCT	Collaborators