JOB DESCRIPTION

Job Title: Postdoctoral Data Scientist/Bioinformatician at the Africa Health Research Institute (AHRI)

Lab: Ndung'u
Direct Supervisor: Thumbi Ndung'u
Email: education@ahri.org
Phone: N/A

Employing Hospital and Department:
Africa Health Research Institute, University of KwaZulu-Natal

Minimum degree and field of knowledge: PhD in bioinformatics, computer science, or related field
Years experience required: 4 years or more of computational experience (PhD studies will count towards this requirement) with prior bioinformatics experience.

Summary:
Africa Health Research Institute (AHRI) is seeking a highly motivated postdoctoral data scientist/bioinformatician to join the team in Durban, South Africa. The areas of research will entail translational HIV B-cell immunology work. This work is a collaborative effort between AHRI's Ndung'u Group and various partners in the International AIDS Vaccine Initiative (IAVI) Network aimed at informing the development HIV vaccines. Specifically, the work will include bioinformatic analyses on B-cell repertoires and HIV-specific B cells. The incumbent will also provide bioinformatic support towards other ongoing immunology and virology work. At every level, we value intelligence, teamwork, dedication, and creativity, and we're always looking for people with those skills who thrive in teams and dynamic environments.

Job Duties:
Under the direction of the principal investigator, the associated responsibilities will include:

- Bioinformatic analyses on large Next-Generation sequencing data across the IAVI network
- Other computational support on antibodies and HIV sequences to support B-cell work
- Basic molecular biology procedures
- Perform data visualization
- Train other lab members on commonly used bioinformatics applications
- Assists in the development of bioinformatics workflows to automate frequently used analytical procedures
- Provide summary reports of workflow outputs
- The maintenance of detailed documentation either through a laboratory notebook or well annotated scripts
- Be an active member of AHRI, including participating in meetings, interacting with/supervising technicians or interns, and regularly presenting results.

Qualifications:

- Essential skills
    - Experience in analysing large Next-Generation sequencing data
    - Detailed knowledge of the procedures relevant to the work will be an added advantage
    - Publications in peer-reviewed journals are an added advantage

- Desired Competencies
    - Strong analytical, reasoning and problem-solving skills
    - High level of English language competence appropriate for scientific journal article submissions
    - Good communication skills
    - Capable of interacting with people of different cultures
    - Self-directed, highly motivated, adaptable and capable of adhering to deadlines

Application information: To apply, please email a cover letter and CV (which highlights at least three references) in PDF format to education@ahri.org with the subject line 'Postdoctoral data scientist/Bioinformatician'.

AHRI is fully compliant with South African labour law and is committed to employment equity. AHRI reserves the right in special circumstances to accept late applications or to extend the above date in order to facilitate further searches. Furthermore, AHRI reserves the right not to make an appointment.