Position Title:	Bioinformatics Officer
Position Classification:	Level A
Faculty/Office:	Medicine, Dentistry and Health Sciences
School/Division:	Medicine and Pharmacology
Centre/Section:	Centre for Medical Research
Supervisor Title:	Professor
Supervisor Position Number:	313281

About the University

The University of Western Australia has an international reputation for excellence and enterprise and has been rated as one of the best comprehensive universities in Australia. It is one of the country's leading research institutions as demonstrated by our Nobel Laureate and is the only WA member of the prestigious "Group of Eight" research universities.

Vision and Values

The University of Western Australia vision is achieving international excellence.

Its core values underpinning our activities are a commitment to:

- A high performance culture designed to achieve international excellence
- Academic freedom to encourage staff and students to engage in the open exchange of ideas and thought
- Continuous improvement through self-examination and external review
- Fostering the values of openness, honesty, tolerance, fairness, trust and responsibility in social, moral and academic matters
- Transparency in decision making and accountability
- Equity and merit as the fundamental principles for the achievement of the full potential of all staff and students
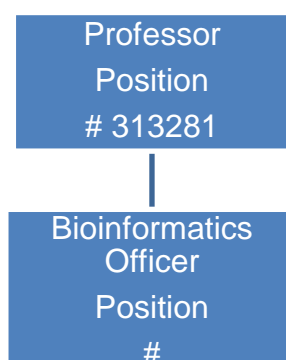
All staff are expected to comply with the Code of Ethics and the University's Code of Conduct and demonstrate a commitment to its Equity and Diversity and Safety principles and the General Capabilities of personal effectiveness, working collaboratively and demonstrating a focus on results. Details of the University policies on these can be accessed at http://www.hr.uwa.edu.au/publications/code_of_ethics, http://www.equity.uwa.edu.au and http://www.safety.uwa.edu.au/policies. All Staff are to complete a Professional Development Review Annually. Details of the University policies on Professional Development Review can be accessed at http://www.hr.uwa.edu.au/policy/toc/performance_management_of_staff/professional_development_review
A Commencing Professional Development Review should be completed within six months of commencement please discuss with your supervisor who is responsible for undertaking the review.

About the work area

Medicine and Pharmacology is a large School within the Faculty of Medicine, Dentistry and Health Sciences. This position is based at the Sir Charles Gairdner Hospital Unit at the Queen Elizabeth Medical Centre in Nedlands. The Unit has significant links across the West Australian Health Sector and provides teaching to undergraduate and postgraduate students across the medical disciplines. A core priority is medical and clinical research and a number of substantial research groups are based in the Unit's laboratories.

Organisation chart

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        Professor
        Position
        # 313281
            |
       Bioinformatics
          Officer
         Position
            #
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Role statement

The appointee will be part of the UWA School of Medicine and Pharmacology located in The Centre for Medical Research, Nedlands.

The appointee, under minimal supervision, will perform analyses of next generation sequencing datasets, interpret the results and write manuscripts.

Key responsibilities

Design and perform a wide variety of research laboratory tasks and experiments, making detailed observations, analysing data, and interpreting results with the help of supervisors.

Write reports, summaries, and protocols regarding experiments, as well as draft manuscripts for publication in scientific journals including generating the text and publication quality figures.

Perform troubleshooting of experiments performed by those under their direct supervision.

Supervising students and a research assistant

Other duties as directed.

Specific work capabilities (selection criteria)

A PhD or equivalent in molecular biology, bioinformatics, computer science, biostatistics or a related field with an emphasis in the specific fields of bioinformatics, genomics and systems biology.

Essential

- Published articles using next generation sequencing data.
- Demonstrated capacity to form hypotheses, test them and follow through to write papers.
- Experience in coding, documenting, testing and reusing code.

Desirable

- Experience with analysis of single cell datasets
- Experience working on cancer genomic datasets
- Experience with transcriptional regulatory networks
- Experience with integration of public NGS datasets
- Experience with various unsupervised and supervised classification methods
- Experience working with wet-bench biologists to develop use friendly web based visualization tools.
- Experience with R, python or C
- Experience with establishing analysis pipelines

The candidate will:

Be self-driven and able to work both independently with minimum supervision but also contribute as part of the team.

Have well-developed organisational skills and the ability to meet deadlines.

Have well-developed written and verbal communication skills, including writing of scientific manuscripts for publication.

Have the ability to supervise research assistants and students.

Special Requirements