

Position Title	Programmer
Classification	Level 6
School/Division	Administration
Centre/Section	UWA Centre for Medical Research
Supervisor Title	Professor
Supervisor Position Number	106650
Position Number	318849

Your work area

This position is based within the Diabetes Laboratory and located at the Harry Perkins Institute of Medical Research and the UWA Centre for Medical Research (CMR). The Laboratory is focused on developing "systems genetics" technology, which integrate multiple levels of data with underlying genetic information, allowing the definition of networks interacting genes.

Reporting structure

Reports to: Professor

Your role

As the appointee you will, under general direction, implement machine learning on medical and genetic data, manage databases and write software in conjunction with the Director of the Centre for Diabetes Research and other researchers.

Your key responsibilities

Conduct machine learning analyses of our existing data and new data
Contribute to development of programs for analysing genetic data via parallel programming
Manage, debug and improve code
Manage bioinformatic databases
Maintain online website tools
Assist in system administration and IT tasks
Other duties as directed

Your specific work capabilities (selection criteria)

Relevant tertiary qualification in Computer Science or related discipline or demonstrated competency equivalent
Experience in machine learning methods
Experience in Parallel Programming (MPI, XGRID, CUDA)

Highly developed written and verbal communication skills

Highly developed organisational skills with the demonstrated ability to set priorities and to meet deadlines

Proficiency in a range of computing skills including word processing, spreadsheets, databases, internet and email

Ability to work independently, show initiative, problem solve and work productively as part of a team

Proven ability in C/C++, Python desirable, MySQL, R, SPSS. Experience in other statistical packages is an advantage

Ability to analyse and interpret research data

Special requirements (selection criteria)

Some after-hours work may be required

Compliance

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

The University's Code of Conduct hr.uwa.edu.au/policies/policies/conduct/code/conduct

Inclusion and Diversity web.uwa.edu.au/inclusion-diversity

Safety, health and wellbeing safety.uwa.edu.au/