

Position Title	Research Associate
Classification	Level A
School/Division	UWA Centre for Medical Research
Supervisor Title	Professor
Supervisor Position Number	315069
Position Number	320760

Your work area

This position is based within the Advanced Clinical and Translational Cardiovascular Imaging Laboratory, Cardiovascular Science and Diabetes Group at the Harry Perkins Institute of Medical Research, UWA Centre for Medical Research. The Group is one of the world's foremost research groups in the field of artificial intelligence and machine learning towards cardiovascular disease and inflammation. Using a diverse set of scientific approaches from mechanistic translational science program, epidemiological, machine and deep learning methods; the team uses a trans-disciplinary approach with long term goals of improving risk prediction and risk stratification for people with suspected or at risk of cardiovascular disease.

Reporting structure

Reports to: Professor

Your role

As the appointee, you will under limited direction work as part of a team to further the goals of the Advanced Clinical and Translational Cardiovascular Imaging Laboratory as well as working with other researchers to provide support for computational data analysis. It is a great opportunity to apply your formerly acquired skills and experiences to leverage artificial intelligence, machine learning, and other related methodologies and techniques towards heart disease risk assessment.

Your key responsibilities

This position will work alongside a multi-disciplinary team where some of your responsibilities will include:

Research, design and build pragmatic, scalable, and rigorous solutions towards computational imaging algorithms.

Build and maintain data driven information retrieval models, experiments, recommendation algorithms, and machine learning models.

Collaborate and work cross-functionally to define problem statements, collect data, build analytical models, and make recommendations.

Investigate new data and machine learning technologies.

Provide support for drafting grant applications.

Mentor and advise team members on how to solve analytical, data and technical challenges.

Ensure high quality of research documentation and data acquisition related to experimental and clinical studies.

Other duties as directed

Your specific work capabilities (selection criteria)

The successful candidate will have the following skills/experience:

PhD degree in Computer Science or similar.

Sound knowledge and skills in Python or related programming language.

Sound knowledge and previous experience with artificial intelligence and machine learning (including deep learning) algorithms and model performance.

Strong attention to detail

Excellent troubleshooting and communication skills both verbal and written.

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

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

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

Special requirements (selection criteria)

There are no special requirements

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/