



Position Title:	Research Fellow
Position Classification:	Level B/C
Position Number:	NEW
Faculty/Office:	Faculty of Engineering and Mathematical Sciences
School:	Physics, Mathematics and Computing
Department:	Computer Science and Software Engineering
Supervisor Title:	Professor

Your work area

The Department of Computer Science and Software Engineering under the School of Physics, Mathematics and Computing is renowned for its award-winning researchers, teachers and facilities. The broad-based undergraduate and postgraduate programs are complemented by a wide range of research activities and the School is a leader in developing graduates with high level expertise in computer programming and the methods involved in performing complex computations and processing data. In the resource rich state of Western Australia the opportunities for partnership and collaborative research are extensive and the School has well established links with industry.

Further information about the School and its teaching programmes can be found at <https://www.uwa.edu.au/ems/Schools/Physics-Mathematics-and-Computing/Department-of-Computer-Science-and-Software-Engineering>

Reporting Structure

Reports to: Professor

Your role

You will support an industry funded project involving the development of advanced computer vision and deep learning algorithms for the automatic detection, identification and evaluation of crop stress using remotely sensed multi-modal and high-dimensional data. You will be part of a dynamic multidisciplinary team that will contribute to new and exciting research that will benefit the multi-billion dollar Australian grain industry.

Your key responsibilities

Undertake independent and collaborative research within the areas of computer vision and deep learning to generate research output of high impact.

Supervise research students at both the undergraduate and postgraduate levels and post-doctoral research fellows.

Work with current faculty to develop and contribute to research bids for funding from nationally competitive funding agencies; collaborative research projects involving industry; and government partners or internationally.

Keep clear and detailed records of methods and workflows.

Work in accordance with the University's values, policies, delegations, financial regulations and other procedures; demonstrating tolerance and open mindedness, with understanding of the diverse nature of the University's community

Other duties as required.

Your specific work capabilities (selection criteria)

PhD in Computer science or other relevant field.

Demonstrated research track record with high quality publication outputs, relative to opportunity, in Computer vision and deep learning, preferably for multi-modal and high-dimensional data.

Excellent command of relevant programming languages and software packages for computer vision, machine learning and/or data science.

Experience in the supervision of Honours, Masters and PhD students

Highly developed interpersonal, verbal and written communication skills with the ability to work effectively as part of a team and engage with relevant external stakeholders.

Demonstrated ability to work independently and show initiative.

Special Requirements

Possibility to work remotely while COVID-19 restrictions persist

Compliance

Workplace Health and Safety

All supervising staff are required to undertake effective measures to ensure compliance with the Occupational Safety and Health Act 1984 and related University requirements (including Safety, Health and Wellbeing Objectives and Targets).

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements.

Details of the safety obligations can be accessed at <http://www.safety.uwa.edu.au>

Equity and Diversity

All staff members are required to comply with the University's Code of Ethics and Code of Conduct and Equity and Diversity principles. 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>