

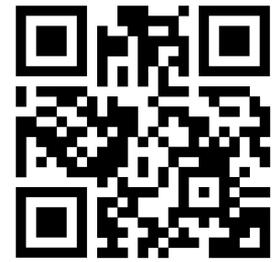


THE UNIVERSITY OF
**WESTERN
AUSTRALIA**

**Institute of
Agriculture**



The UWA Institute of Agriculture (IOA) provides research-based solutions to food and nutritional security, environmental sustainability and agribusiness.



MISSION

To enhance The University of Western Australia's (UWA) contribution to the advancement of agriculture and to the management of natural resources in selected international, national and regional settings. For Western Australia (WA), the Institute works with the agricultural and natural resource management sectors to create knowledge and improve workforce skills, such that those committed to agriculture may advance their individual aspirations, contribute to local and regional prosperity and exercise responsible stewardship of the environment.

STRATEGIES

- **Integration:** Bringing together UWA's agricultural research and communication activities; integrating complementary activities across disciplines and organisational units, and providing a focus for leading-edge research, development, extension and adoption (RDE&A).
- **Communication:** Strengthening communication links with regional industry, farmer groups and the broader regional and scientific communities.
- **Connecting:** Fostering national and international linkages and alliances that bring new knowledge and expertise to WA, and allow UWA to share its knowledge with the world.
- **Resourcing:** Increasing the pool of resources available for investment in critical RDE&A in WA and relevant national and international issues.



COLLABORATIONS

IOA has strong links with the agriculture industry, rural farming communities, and fellow universities and research institutions. This is reflected in our regional, national and international partnerships, joint publications, memoranda of understanding, student and staff exchange programs, joint research centres and appointments, and training courses.

Scan to read IOA's regular newsletters, media releases, Annual Research Report and Strategic Plan 2021-2025.



RESEARCH FACILITIES

Students and researchers have access to a full range of state-of-the-art research facilities, including microscopy and molecular biology, analytical laboratories and plant growth facilities within UWA's schools and research centres. The UWA Shenton Park Research Facility offers 5ha of irrigated plot land, anti-viral tunnel houses, a biosecurity plant house and processing lab, temperature-controlled glasshouses, an aquaculture facility and the Centre for Engineering Innovation: Agriculture & Ecological Restoration. IOA manages UWA Farm Ridgefield, a 1600ha mixed-enterprise farm near Pingelly in WA's grainbelt that supports agricultural research at UWA, including the Best Practice Farming Systems Project.

STUDY AT UWA

UWA is world-renowned for its high standard of undergraduate degrees and postgraduate programs (PhD and Master's by research) in agriculture and related areas. *Scan to learn more about courses, research opportunities and enrolment pathways.*





IOA's activities and initiatives are structured around six interdisciplinary **Research Themes**, which facilitate research, national and international links and partnerships, education and training, outreach and technology transfer.



SUSTAINABLE CROPPING SYSTEMS

This theme addresses the genetic and agronomic manipulation of root architecture and function, including rhizosphere biology, pushing into the next frontier in crop production. Research in this theme takes advantage of UWA's significant strength in root processes and the interaction of roots and soil in abiotic and biotic environments.

SUSTAINABLE ANIMAL PRODUCTION SYSTEMS

Researchers within Sustainable Animal Production Systems focus on the contribution of livestock industries to solving global food supply. To ensure grazing systems are productive, profitable and sustainable, we need a multidisciplinary approach to optimise the interactions among genotype, environment and management.

WATER FOR FOOD PRODUCTION

Water for Food Production prioritises modelling, experimentation and field observations, training and technology exchange through industry collaboration and engagement. It is underpinned by teaching (undergraduate, Masters and PhD) and research components: economics, plant water use, agronomy and irrigation design.

FOOD QUALITY AND HUMAN HEALTH

Members of this theme focus on the development of a collection of healthy functional foods and ingredients, as well as improved processes for their production and manufacture. The research will deliver scientifically-validated evidence for the promotion of new foods, as well as significant added value to agricultural industries.

ENGINEERING FOR AGRICULTURE

This theme provides engineering solutions to agriculture for sustainable growth of net farm yield, reduction of wastage, and minimisation of environmental impact. To maintain and enhance its international reputation, UWA aims to incorporate engineering into its mainstream agriculture training and research programs.

AGRIBUSINESS ECOSYSTEMS

The Agribusiness Ecosystems theme collaborates with fellow research themes to advance knowledge and best practice on how local and global agri-food systems work, evolve and perform, and how public policy and management practice can be used to address the many challenges faced by firms and industries in the ecosystem.



"Our vision is to foster innovation and provide research-based solutions to food and nutritional security, environmental sustainability and agribusiness. The Institute works with the agricultural and natural resource sectors to create knowledge and improve workforce skills, such that those committed to agriculture may advance their individual aspirations, contribute to local and regional prosperity, and exercise responsible stewardship of the environment."

HACKETT PROFESSOR KADAMBOT SIDDIQUE
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