The University Of Queensland
AUSTRALIA

QAAFI
Queensland Alliance for Agriculture and Food Innovation

STUDY OPPORTUNITIES

At the Queensland Alliance for Agriculture and Food Innovation

Queensland Government

Complete your studies with QAAFI and we'll help you to achieve your academic goals in agriculture and food science.

The Queensland Alliance for Agriculture and Food Innovation (QAAFI) is a world-leading research institute, and among only a handful of similar scientific organisations anywhere in the world.

Formed from the combined scientific expertise of researchers from UQ and the Queensland Government, QAAFI conducts research across the supply chain in crops, horticulture, livestock and food. Our focus is on delivering high-impact science to address the challenges facing food and agribusiness sectors in the tropical and subtropical systems, both in Queensland and globally. QAAFI researchers and students have access to fourteen world-class field stations and facilities throughout Queensland.

Study with QAAFI

QAAFI research projects are designed to help you develop high-level research skills in the areas of tropical and sub-tropical food, fibre and agri-business research. Working in modern laboratories, alongside leading researchers, successful students have the opportunity to develop important research contacts (including those in associated industries), travel for research and conferences, and gain a highly regarded Australian qualification.

High impact science for sustainable agriculture and food

QAAFI is comprised of four inter-related research centres, with a focus on the challenges facing tropical and sub-tropical food and agribusiness sectors in the tropical and subtropical systems.

- Centre for Animal Science
- Centre for Crop Science
- Centre for Horticultural Science
- Centre for Nutrition and Food Sciences

Centre for Animal Science

The Centre for Animal Science aims to increase on-farm productivity and sustainability in the northern Australian beef industry and across the livestock industries. We have major programs and capability in genetics and genomics; breeding and reproductive capability of northern Australian cattle breeds; welfare and ethics; pest and disease control through improved detection; monitoring and vaccine technologies; nutrition; metabolism and growth.

Centre for Crop Science

The Centre for Crop Science conducts world-leading research targeting enhanced profitability and sustainability of cereal and legume cropping systems in tropical and sub-tropical environments. We pursue excellence in crop science at molecular, whole plant, and production system levels. Our integrated research capabilities include crop genetics, physiology, and modelling, along with soil science and weed biology.

Centre for Horticultural Science

The Centre for Horticultural Science delivers improvements to productivity, profitability and sustainability of horticulture industries. Our expertise includes; Horticulture crop breeding and agronomy, Plant protection and Emerging technologies.

Centre for Nutrition and Food Sciences

The Centre for Nutrition and Food Sciences supports enhanced health outcomes and economic benefits for Australia, by conducting integrated fundamental and applied research to improve the taste, quality, appearance, nutritional value and safety of food. We aim to understand the fundamental characteristics of food that influence processing, food quality, consumer perception and nutritional value.

QAAFI delivers high-impact science to significantly improve the productivity, competitiveness and sustainability of tropical and subtropical food, fibre and agribusiness industries.

Higher degree by research opportunities

Doctor of Philosophy (PhD)

A PhD is one of the highest degrees that can be awarded. It is an advanced academic qualification seen as a requirement for the majority of academic and research positions in a wide range of fields and industries. The aim of the PhD is to foster the development of independent research skills. These skills include the capacity to formulate a significant problem, to develop mastery of appropriate conceptual and methodological skills, and to relate the research topic to a broader framework of knowledge in a relevant disciplinary area.

Duration: 3 – 4 years full time

Master of Philosophy (MPhil)

An MPhil is an internationally recognised postgraduate research degree that involves undertaking a significant research project. The MPhil program provides students with an opportunity to develop and enhance analytical and research skills through independent investigation in a specific field. Many MPhil students choose to continue with their research in order to obtain a PhD. Likewise, some PhD students elect to finish early with an MPhil.

Duration: 1.5 – 2 years full time

For more information on higher degree by research (HDR) programs at QAAFI, visit: **qaafi.uq.edu.au/study**

Undergraduate opportunities

QAAFI welcomes enquiries from students who are enrolled in a UQ Master's program (Master's by Coursework, Introduction to Research and Master of Agricultural Biotechnology by Coursework).

For more information visit: **qaafi.uq.edu.au/supervisors**

Honours

Students may undertake their Honours project by enrolling through a school in the Faculty of Science, and supervised by a QAAFI researcher. Participation allows students to engage with and experience the rich intellectual resources and facilities available to the Institute.

Duration: 1 year full-time

For more information about Honours at QAAFI and available projects, visit: **qaafi.uq.edu.au/honours**

Summer and Winter Research Programs

Students interested in pursuing a research career in agriculture are encouraged to apply for the UQ Summer and Winter Research Programs offered at QAAFI.

Duration: 4-10 weeks

For more information about the programs, visit: **qaafi.uq.edu.au/research-program**

"I really feel avocado research gives me the best of both worlds – the lifestyle of being involved with agricultural production in Queensland as well as the science. I love talking to growers and being in the field as much as I love being in the laboratory."

Dr Louisa Parkinson, Research Officer at QAAFI's Centre for Horticultural Science

Scholarships

QAAFI encourages students to apply for scholarships through The University of Queensland, State and Federal Governments, and private benefactors. It is also advised you talk to your supervisor about available project scholarships.

For more information on scholarship opportunities, visit **scholarships.uq.edu.au**

Rankings

UQ is ranked #1 in Australia and #3 globally for agriculture

According to the NTU Performance Ranking of Scientific Papers for World Universities by field 2020.

UQ is ranked #1 in Australia and #26 globally for life sciences

According to the QS World University Ranking, by Subject (Agriculture & Forestry) 2021.

UQ is the #3 university in Australia for research

According to the Nature Index tables Top Academic Institutions 2020.

UQ is ranked #21 globally for Agricultural Sciences

According to the ShanghaiRanking's Global Ranking of Academic Subjects (ARWU) 2020.

UQ is ranked #1 in Australia for food science and technology

According to the ShanghaiRanking's Global Ranking of Academic Subjects (ARWU) 2020.

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