

Agricultural innovation to solve future challenges



Australian
National
University



- How do we feed the growing global population in a sustainable way?
- Are technological solutions the key to food security?
- What role does innovation play in improving agricultural sustainability and resilience?
- How can innovation enhance, and cross multi-and trans-disciplinary solutions for agricultural systems?
- How do we overcome barriers to adopting new farm or industry management practices?

We have the technology and networks to build a sustainable future for everyone-but agriculture needs forward thinking innovators like you to address the unfolding challenges of the 21st century.

If you're looking to develop your career in an agricultural organisation, or you can see a gap in your agricultural industry that needs addressing, the Australian National University wants to enable your specialist interest, knowledge, and skills, to doing agriculture differently.

ANU has established a Masters program, as well as offering coursework options for Undergraduate and Masters students-and is gearing up to offer tailored professorial courses for organisations seeking to enhance their staff capabilities in global food system innovation.

Master of Science in Agricultural Innovation

Our new two-year program in *Agricultural Innovation* takes a cross-disciplinary approach to agriculture. This means you can apply your existing skills, interests and specialisations, to real-world issues faced by global food production and food security.

We want to help you to integrate and adapt your knowledge from different disciplines to the food and fibre challenges of tomorrow, opening new career opportunities in agriculture. We partner with a number of ANU schools and colleges to allow your existing undergraduate and postgraduate subjects to be counted alongside the three new Masters courses.

A unique strength of our new Masters is the use of integrated systems-based approaches. This means that as part of the program, you will work in multidisciplinary teams, translating research and theory into real-world outcomes, gaining industry relevant skills, and a deep understanding of industry's big challenges.

A smorgasbord of industry professionals have come together to deliver a program packed with real-world projects and internships, and you will complete the program embedded within a rich professional community of researchers, industry partners, policy specialists, and producers.

Undergraduate and Masters Coursework Options (Agricultural Innovation)

Consider agricultural courses within your degree. Three key courses will develop understanding of baseline agriculture practices, the systems that it exists in and the global reality that influences it.

Master of Science (Agricultural Innovation)

By completing courses in environmental management, business, computer science, biology, engineering or systems modelling, you will have the skills to integrate and adapt knowledge from different disciplines to design novel solutions to complex problems.

<https://science.anu.edu.au/study/masters/master-scienceagricultural-innovation>

Agriculture Innovation Major (BSc and BENSU)

With a major in Agricultural Innovation you will have the skills required to solve the complex challenges facing society, such as the changing climate and increasing competition for land, water and energy resources,

<https://programsandcourses.anu.edu.au/2022/major/AGIN-MAJ>

Key Agriculture Courses

Sustainable Agricultural Systems

<https://programsandcourses.anu.edu.au/2021/course/ENVS2023>

Agricultural Systems

<https://programsandcourses.anu.edu.au/2021/course/ENVS2024>

Agricultural Innovation

<https://programsandcourses.anu.edu.au/2021/course/ENVS3042>

**Our Agricultural courses are also available across a range of programs from other fields, not just the dedicated programs*

To arrange a consultation contact us at:

agandfood@anu.edu.au or
fes.coursework.enquiries@anu.edu.au

Information for employers

- Do you have future-focused talent in your organisation?
- Have you recognised challenges or projects in your industry that would benefit from a team of specialists working with you?
- Do you want to take your problem solvers to the next level?

Our Master of Science draws excellent thinkers from a diverse array of institutions, and teaches them to apply their skills, interests and specialisations, to real-world issues faced by global food production, food security and tech/innovation in agriculture.

Developing real-world experience and career-ready skills are the focus from this new program. We are excited to help produce graduates that fill the gaps industry needs and wants.

A cross-disciplinary approach

The two-year degree in Agricultural Innovation invites students to take up agriculture and systems subjects, alongside subjects from across ANU, including Agriculture, Biology, Commerce and Business, Computer Science (applied), Engineering (general), Environmental Science, Management, Marketing, Mathematics, Natural Resource Management, Professional Practice, Science Communication and Statistics.

Students learn how to apply their existing skills in multi-disciplinary group working environments, to achieve long-lasting solutions to agricultural challenges.

Working with industry is crucial if we are to develop future-ready graduates - and bringing knowledge from industry, the shed, or field - is the next vital step.

A pillar of the Masters is that students work with a rich community of researchers, industry partners, policy specialists and producers as part of their education. Courses are co-taught with industry professionals, and include joint-internships and real-world multi-disciplinary projects, so that learning is about meaningfully addressing the industry's big issues.

Our program is delivered on the premise that truly innovative education celebrates diversity, and that knowledge, skill, passion and enthusiasm for agriculture comes from many different places, including practical, cultural, and industry experience.

The program is just a first step in an exciting suite of activities ANU is developing to strengthen the future of Australian agriculture and ***we invite you to become part of this exciting new venture.***

Partner With Us: A community of experts at your fingertips

New challenges need a new way of thinking, and a new ways of teaching. We invite you to join our community of diverse expertise, by becoming part of our program as an industry partner.

Provide a platform to solve real-world industry challenges

We are seeking partners who are interested in creating placements and reciprocal platforms for our students to specialise their skills through problem solving within your organisation. Whether you are interested in offering industry placements, internships, fellowships, mentorships or competitive challenges to contribute to enhancing project development in your sector, we're keen to hear from you.

Teach and meet tomorrow's leaders

We are open to expressions of interest to showcase your industry or organisation to our students, either in our teaching material, or in person. The *Fenner School of Environment & Society* is able to arrange opportunities for you to present to our students, and coordinate networking evenings and opportunities for you to attend and meet our Masters cohort.

Sponsor a scholar

By offering a scholarship or research stipend that is contingent on engagement with topics specific to your priorities and interests, we are able to pair the right emerging researcher with your interests, and develop specialised knowledge for your industry.

Upskill your team

We invite applications from those already working in agricultural industries who would like to further their studies. We are available

to consult with you, your board, employees and leadership, to craft a personalised approach to studying agricultural innovation here at ANU.

Shape our program today

In 2020, the foundational academics developing this program were awarded a CSIRO grant to thoughtfully engage with agricultural industries, and craft our Masters program so that it continues to be built with industry demand and inquiry as an educational priority.

A key point of difference between this program and agricultural studies elsewhere, is that our program is developed in conversation with, and in response to, industry needs. Unlike similar degrees on offer from other academic institutions, this course intends to inverse the standard approach of focusing on broadly defined agricultural-specific skills.

Through these two key differences, the focus of the ANU degree will take the scope of disciplinary skills that potential students hold as the foundation, and provide a lens through which these skills can be honed and implemented in an agricultural context, to the benefit of agricultural industry in Australia.

We are inviting you to help us understand the skills and people you need to be brought into the industry, so that our degree program can provide them to you.

To learn more and express interest in pursuing any of these opportunities, we invite you to consult with us at:

agandfood@anu.edu.au