SDG 9 Industry, Innovation and Infrastructure

Overview

UQ is progressing SDG 9 through its commitment to fostering innovation across sectors, investing in infrastructure and collaborating with industry on world-class research.

UQ's commercialisation efforts translate research into real-world impact, and its Collaborative Research Platforms (CRPs) provide cutting-edge interdisciplinary infrastructure and technology capabilities, enabling transformative research programs and projects that address industry and government needs.

UQ also works to improve capability in key sectors, such as through the Australia Research Council (ARC) Training Centre for Environmental and Agricultural Solutions to Antimicrobial Resistance, ARC Training Centre in Predictive Breeding and ARC Centre of Excellence for Green Electrochemical Transformation of Carbon Dioxide (GETCO2).

In teaching and learning, UQ aims to offer rich and varied education opportunities and experiences that foster entrepreneurship, civic duty and digital literacy.

Together, these activities reflect UQ's commitment to building resilient infrastructure, promoting sustainable industrialisation and fostering innovation.

Progress made in 2025 towards SDG 9 is reported here with reference to the following domains and enablers from UQ's Strategic Plan 2022-2025:

- learning and student experience
- research and innovation
- enriching our communities
- our global profile
- securing our future.

Related SDGs

- SDG 3 Good health and well-being
- SDG 6 Clean water and sanitation
- SDG 7 Affordable and clean energy
- SDG 8 Decent work and economic growth
- SDG 13 Climate action.

Learning and student experience

In 2025, UQ continued to champion sustainable innovation through both curricular and extra-curricular activities, equipping future leaders to drive impactful change across industries and society.

Courses and units relating to industry, innovation and infrastructure

Building on its tradition of excellence in teaching, UQ endeavours to equip graduates with both disciplinary knowledge and transferable skills essential for success in a constantly changing global workplace, including in the areas of resilient and sustainable industry, innovation and infrastructure development. For example, in 2025 UQ offered the following undergraduate degrees:

- Bachelor of Business Management
- Bachelor of Engineering (Honours)
- Bachelor of Information Technology
- Bachelor of Environmental Management (Honours)
- Environmental Science offered as a major in the Bachelor of Science
- Innovation and Entrepreneurship offered as a major in the Bachelor of Business Management, a major in the Bachelor of Design and a minor in the Bachelor of Biotechnology.

While many individual courses across UQ include SDG concepts within their curricula, the University also offers the following postgraduate qualifications that specifically align with SDG 9:

- Master of Sustainable Energy. This program equips students with the interdisciplinary knowledge to address global energy challenges, understand the complexities of energy generation and supply and manage the transition toward a low-carbon, clean energy future
- Master of Environmental Management. This program develops students' analytical and strategic skills to craft sustainable policies and practices across various industries, enabling graduates to address climate change and pollution while supporting sustainable industrial practices
- Master of Entrepreneurship and Innovation. This program provides students with hands-on experience to apply innovative thinking, test new ideas, hone creative problem-solving skills and drive business growth across various industries and organisations.
  - Climate Technology and Sustainable Energy. This field of study focuses on emerging technologies, climate entrepreneurship and energy system transformation, blending technical knowledge with commercial insight to prepare graduates to innovate in clean tech, energy markets and climate-positive businesses

- Master of Business. This program equips students who are seeking a career transition or management roles with advanced skills and business fundamentals, including strategic decision-making, financial management and industry-relevant specialisations.
  - Sustainability: Strategy and Leadership. This field of study combines theory with practice to explore new business models and system-wide impacts, preparing leaders to drive business transformation, manage risks and develop adaptive, resilient companies within resource-constrained environments
  - Innovation and Entrepreneurship. This field of study focuses on building sustainable business ventures by combining research, innovative technology and business management practices through problem-based learning and hands-on electives.

Student extra-curricular opportunities

UQ offers a variety of extra-curricular activities and opportunities to complement curricular learning by enabling students to grow their innovation and entrepreneurship mindset and capabilities, and to develop their knowledge and industry networks. Some of 2025 activities include:

- entrepreneurship programs that are going from strength to strength, with 1,152 unique students participating in one of the many UQ Ventures programs or workshops on offer in 2025. Highlighting this momentum, 32 per cent of students from Semester 2 identified environment and sustainability as a key interest area. This passion was reflected in key programs such as:
  - The Ventures Industry Challenge 2025, which focused on re-imagining the future of ageing, engaging students in an 8-week, industry-supported experience to tackle real-world challenges with bold, innovative thinking. Participants developed solutions around ageing to ensure all older Australians have the support, choice and care needed to live healthy connected and fulfilling lives. Presented in partnership with Philip and BlueCare and supported by Aged Care Research & Industry Innovation Australia (ARIIA), the Challenge culminated in an October Pitch Showcase at the State Library of Queensland.
  - The Global Startup AdVentures program, where students learn first-hand from innovative startup communities. In 2025, UQ hosted 4 global Startup AdVentures programs in San Francisco, Singapore, Hanoi and Shenzhen, connecting 94 students with leading start-ups to provide hands-on experience, strengthen regional innovation ecosystems and boost employability.
- Sustainability Innovation Challenge (SIC) 2025. Led by the UQ Innovation and Entrepreneurship Society (UQIES) and UQ Ventures, the challenge was a high-energy, fast-paced hackathon that invited students to solve some of the biggest water challenges facing South East Queensland (SEQ). With over 3.7 million people relying on the SEQ Water Grid, participants were asked to imagine a future where conservation, restoration and innovation go hand in hand. More than just a weekend of brainstorming, the event brought together a record-breaking 140 students across 28 teams, spanning disciplines and experience levels. Sponsored by Seqwater, students came together to collaborate with industry experts and mentors, competing for a prize pool to bring their ideas to life. 4 teams placed in the competition, with solutions ranging from software as a service that integrates with farming equipment to reduce

water consumption, to water-efficient turf, and a sustainable and healthy cooking oil alternative made from algae.

- Illuminate 2025. Hosted by UQ's Faculty of Engineering, Architecture and Information Technology (EAIT) on 26 November 2025, this event was a consolidated showcase celebrating final-year student innovation across engineering, computing, architecture, design and planning. Combining the former Electrical Engineering and Computer Science Innovation Showcase and Architecture, Design and Planning Graduate Exhibition, the event provided a multidisciplinary platform for students to present their work and real-world problem-solving to industry professionals and the UQ community, encouraging cross-disciplinary collaboration, networking and industry recognition.

Research and innovation

UQ is committed to fostering mutually beneficial partnerships for research translation and commercialisation at scale to create positive impact for our communities, the environment and economy. In 2025, UQ's research activities provided innovative solutions for industry and government challenges by contributing towards the development of cutting-edge technological advancements, especially in the medical and advanced material sectors.

How we achieved this

- Professor Yusuke Yamauchi and his team from the Australian Institute for Bioengineering and Nanotechnology (AIBN) have developed an advanced sensor that can detect pregnancy complications such as gestational diabetes and preeclampsia as early as 11 weeks with a simple blood test. Currently, these cannot be identified by traditional screening methods until the second or third trimester, leaving it sometimes too late for effective intervention. This technology has been developed using nanomaterials that detect low concentrations of biomarkers in the mother's blood. The researchers hope that the sensor will become widely available, significantly impacting health care for mothers and their babies and saving the healthcare system millions of dollars annually.
- Dr Will Anderson from AIBN has designed and developed a low-cost (A$60) fluorometer, which can measure the amount of DNA in a sample, and named it the Do-It-Yourself Nucleic Acid Fluorometer (DIYNAFLUOR). Commercial fluorometers cost thousands of dollars, so Dr Anderson challenged himself to make one as cheaply as possible while match commercial quality control. Now DIYNAFLUOR is a fully open-source project, with all design files and build instructions freely available online for download. It can be printed on a standard desktop 3D printer and assembled in under a day from off-the-shelf electronic components. DIYNAFLUOR is being built and tested around the world, for example by researchers requiring portable technology to detect new variants in viral outbreaks and by schools for outreach activities, making science more accessible.
- A computer simulation to save time and money is the power of a new open-source tool, developed at AIBN this year by Professor Megan O'Mara and her team. The molecular modelling tool, PolyConstruct, has transformed the once painstakingly manual task of setting up polymer simulations, which usually take months, into a digitised process that takes just a day. By modelling materials at the atomic level, scientists can test how they behave in different environments, like in the human body,

under heat or when exposed to chemicals, before they are ever made in the lab. PolyConstruct opens high-level materials discovery to a much broader group of researchers, including those around the world who do not have advanced manual coding skills, so they can explore materials for medical, environmental and industrial use.

- Dr Cheng Zhang and his team have developed a new battery material to elevate sodium metal batteries closer to commercial use. Sodium metal batteries offer an eco-friendlier alternative to lithium-ion batteries, but safety and performance issues have been roadblocks to their real-world use. The team developed a new solid polymer electrolyte to replace liquid electrolytes, which are flammable and tend to overheat, often causing electric vehicles and e-scooter battery fires. So far, the researchers have tested the solid electrolyte sodium batteries at 80°C and they lasted an impressive 5,000 hours, retaining over 91 per cent of their original capacity after 1,000 charge cycles. The next challenge is to optimise efficiency at room temperature, the critical step toward making the batteries commercially viable.
- Researchers from UQ's Faculty of Engineering, Architecture and Information Technology developed a palladium-gold alloy catalyst that combines with titanium dioxide and sunlight to efficiently convert methane into ethylene, which is a key ingredient in plastics and textiles. This process helps solve an emissions problem, since in Australia, methane emissions from agriculture and coal mining are a more serious problem than carbon dioxide emissions. The goal of the researchers is to make this process efficient and affordable so it can be widely adopted.

Research translation and commercialisation

UQ's diverse commercialisation activities reinforce its mission of delivering for the public good through leadership in innovation, a commitment to strengthening the startup ecosystem and translational research which addresses real-world challenges. UQ's goal is to foster mutually beneficial partnerships for research translation and commercialisation at scale, to create positive impact for communities, the environment and the economy. Activities during 2025 include:

- finalising Sanofi's acquisition of Vicebio, a company formed to develop UQ's Molecular Clamp vaccine technology, in the largest deal involving commercialisation of intellectual property from an Australian university.
- establishing a partnership with Molecule to Medicine to create Curlew Bio, a new startup focused on anti-inflammatory disease therapeutics, drawing on expertise from the Queensland Emory Drug Discovery Initiative and Mater Research Institute-UQ.
- maintaining UQ's position as the leading Australian university for commercialisation revenue in the Survey of Commercialisation Outcomes from Public Research.
- partnering with Arup, the organisation appointed by the State Government to lead the integrated masterplan for the Brisbane 2032 Olympic and Paralympic Games main stadium, venue and village precinct.

UniQuest

UniQuest is UQ's commercialisation company, transforming UQ's research into real-world impact since 1984. It has launched over 140 startups, facilitated more than 1,000 industry partnerships and leads Australasia in university-generated commercialisation revenue. UniQuest manages intellectual property (IP), licenses technologies and supports spinouts across biotech, agriculture, engineering and digital sectors. Notable successes include cervical cancer vaccine Gardasil®, Spinifex Pharmaceuticals, Vaxxas and Inflazome. 2025 highlights include:

- selling UQ startup Vicebio Ltd to global healthcare leader Sanofi for US$1.15 billion upfront plus up to US$450 million in milestones to commercialise UQ's patented Molecular Clamp vaccine platform, marking the largest IP acquisition in Australian university history.
- winning first place at the Tech Council of Australia's Australian Cyber Exchange Conference (ACE25) startup pitch competition in April 2025 by UQ spin-out company VeriQuantix, which advanced the commercialisation of UQ's licensed Quantum Link Verification technology to secure global fibreoptic data networks against physical hacks.
- licensing UQ's groundbreaking Single Nucleotide Polymorphism (SNP) koala genetic marker panel, which is Australia's first commercially available and standardised genomic testing array, to the non-profit Australian Genome Research Facility (AGRF) for national deployment to counter endangered population fragmentation and inbreeding.
- accelerating global MedTech recognition and commercial expansion for UQ spin-out company ImpediMed Ltd. Throughout 2025, the company scaled its licensed bioimpedance spectroscopy technology, earning the 2025 Medical Device Network Excellence Award and the 2025 Frost & Sullivan Technology Innovation Leadership Award for its flagship SOZO platform, while securing US$15 million in growth capital funding to expand its US and global healthcare market reach.
- securing critical investment for QED-203 to advance first-in-class treatments for therapy-resistant prostate cancer toward clinical trials. Powered by UniQuest's drug-discovery arm QEDDI, this program obtained a US$1.25 million investment from the US-based Critical Path Institute in May 2025 to fund essential manufacturing and preclinical safety studies.
- forming a strategic Alliance with Molecule to Medicine (MTM) to advance:
  - Curlew Bio. Expanding the alliance in March 2025, UniQuest co-founded this second joint startup and injected A$1 million from the UniQuest Extension Fund to commercialise novel small-molecule therapies for severe inflammatory disorders.
  - Lucia Bio. UniQuest utilised its wholly owned QEDDI pipeline to co-found this joint venture, licensing out UQ immunology IP and securing A$3 million in Seed financing by August 2025 to fast-track targeted Syk inhibitors toward clinical trials for neuroinflammatory diseases.
- securing clinical trial funding for NuNerve. Backed by UniQuest's ongoing equity and IP management, biotech spin-out NuNerve built on successful Phase I safety data to

secure a landmark A$1.8 million grant from the FightMND 2025 Investment Portfolio to launch a 75-patient Phase II clinical trial assessing its motor neurone disease drug NUN-004.

- commercialising clean mineral technology by brokering the February 2025 launch of spin-out Banksia Minerals Processing, which secured venture backing from IP Group and federal grant funding to commercialise a clean, energy-efficient UQ technology designed to extract copper from previously unviable global resources.

These ventures and innovations reflect UniQuest's strategy of combining world-class science with targeted investment and industry collaboration.

University spin-offs

As of December 2025, UQ had 114 active spin-off companies established through UniQuest between 2000 and 2022. These spin-offs are defined as registered companies set up to exploit IP originating from within the institution that remain active and were established at least 3 years ago. These qualifying entities include both those that remain under UniQuest's direct ownership, as well as those where the UQ-originated IP has subsequently been sold to external companies.

Enriching our communities

To meet its mission of delivering for the public good, UQ offers a variety of collaborative opportunities and resources that foster the growth of sustainable and resilient innovation in communities.

How we achieved this

- UQ's UniQuest Extension Fund (UEF) is a A$32 million venture capital initiative supporting early-stage startups founded by UQ staff, students and alumni. It provides funding, resources and industry connections to help startups grow and expand globally. The fund also supports UQ's talent pipeline by involving students in real-world projects. With A$11.8 million committed to 19 startups, UEF drives innovation, job creation and global impact.
- UQ Ventures works with students, industry, alumni and the broader community, including local high school groups, to support entrepreneurs at every stage of their journey and create leaders of the future. In 2025, UQ Ventures supported 70 startups to further develop their business or social enterprise through Accelerator programs. These programs include Empower pre-Accelerator for female founders, the flagship ilab Accelerator and Momentum Accelerator, in partnership with the Queensland Investment Corporation (QIC). Each accelerator culminated in pitch events to showcase startups to investors and the UQ community.
- In 2025, UQ continued its work through the Office of 2032 Games Engagement as a central coordination point for Brisbane 2032 Games-related activities and partnerships, including those with local, state, national and global communities. This included partnering with Arup, the organisation appointed by the State Government to lead the integrated masterplan for the Brisbane 2032 Olympic and Paralympic Games main stadium, venue and village precinct.

- In April 2025, the 'Integrating Transport Planning with Road Network Optimisation' project, delivered in partnership with the Queensland Department of Transport and Main Roads (TMR) and iMOVE CRC, officially released its final research outcomes. These outcomes include a performance-based multimodal network management framework and a prototype visualisation system designed to seamlessly align long-term strategic urban transport planning with real-time operational traffic control, directly improving infrastructure efficiency and reducing congestion-related carbon emissions.
- 2025 saw the launch of the 'Trade and Circular Economy Opportunities for Port Infrastructure' project, led by UQ's Sustainable Infrastructure Research Hub (SIRH) alongside the North Queensland Bulk Ports Corporation (NQBP) and international academic partners. This multi-year initiative aims to establish a future fuels and circular economy framework, transitioning traditional bulk commodity ports, such as the Port of Mackay, into low-carbon alternative energy hubs and environmentally resilient industrial facilities.

UQ's innovation precincts

UQ aims to accelerate and grow innovation precincts that support collaboration with industry, community and government, and enable shared access to state-of-the-art research facilities. To advance these initiatives, UQ undertook several milestone strategic actions throughout 2025:

- participating on the Boggo Road Innovation Precinct Council and Working Group to support the strategic growth of the precinct, building on the establishment of UQ Dutton Park as UQ's 4th campus.
- strengthening partnerships within the Herston Health Precinct to accelerate medical research and prepare future medical professionals.
- enhancing the Queensland Animal Science Precinct at Gatton with support from the SEQ Innovation Economy Fund, an initiative of the SEQ City Deal.
- supporting the development of ENTRI facility at the Translational Research Institute (TRI), a landmark joint venture between UQ, the Queensland University of Technology, the Princess Alexandra Hospital, the Mater Medical Research Institute and the Queensland Government, which is due to open in early 2026 as Australia's first on-demand clinical Good Manufacturing Practice (cGMP) facility designed to mature innovative biotech, pharma and medtech companies.

Precincts and innovation ecosystems in which UQ is a key partner include:

- Queensland Bioscience Precinct, a collaboration between UQ and the Commonwealth Scientific and Industrial Research Organisation (CSIRO), which is dedicated to human, animal and plant biotechnological research.
- Food Science Innovation Precinct, a world-class teaching, research, training and development unit housing 2 modern laboratories and used by Master of Food Science and Technology students to work on a range of projects that will ultimately help food companies create more innovative products.
- Coopers Plains Health and Food Sciences Precinct, a collaborative hub fostering collaboration between researchers working in biosecurity, healthcare and food

technology by hosting scientists from the Queensland Government Department of Agriculture and Fisheries (DAF), CSIRO and UQ.

- Queensland Animal Science Precinct (QASP), a joint initiative of UQ, DPI and the Queensland Government through the Smart State Research Facilities Fund, which is located at Gatton and accommodates training, teaching, validation and commercialisation, focussing on the animal research and development requirements of state, national and international animal industries.
- Boggo Road Ecosciences Precinct, a A$270 million precinct at the Boggo Road Urban Village within UQ's Dutton Park campus, bringing together researchers from the Queensland Government, CSIRO, UQ and other partner universities with state-of-the-art research facilities and a science education centre.
- Pharmacy Australia Centre of Excellence (PACE) Precinct, a A$100 million pharmaceutical facility jointly developed by UQ and the sector with Queensland Government, which serves within UQ's Dutton Park campus as a leading centre for pharmaceutical research, education and commercialisation.
- Herston Health Precinct, a world-class health and innovation precinct located close to Brisbane's CBD that brings together more than 30 health facilities, medical research institutes, universities including UQ and health organisations to support more than 13,000 clinical and non-clinical staff, researchers and students, with state-of-the-art capabilities in health research, education, training and clinical care across priority areas such as ageing, cancer, chronic disease, cardiovascular and respiratory disease and kidney health.
- UQ Sport and Recreation Precinct, Queensland's largest multi-sport precinct, integrating leading sporting facilities, sport science, education and research at UQ's St Lucia campus to support students, researchers, elite athletes, sporting organisations and community groups through unparalleled capabilities in athlete development, health innovation, sport performance and recreation, while contributing to Queensland's sporting legacy leading into the 2032 Olympic and Paralympic Games.

Our global profile

UQ's vision of 'knowledge leadership for a better world' drives research with global impact. In terms of SDG 9, the University aims to strengthen its network of international partnerships to build scale and impact and support capability building across diverse sectors. In 2025, UQ achieved this by:

- building a Coalition for Quality Infrastructure Funding and Financing in Indonesia. Managed by Australia Awards Indonesia, UQ International development unit designed and delivered this short course between August 2024 and January 2025. The program equipped 24 Indonesian infrastructure specialists with expertise from Australian practitioners, government and industry to implement high-quality financing while integrating Gender Equality, Disability, and Social Inclusion (GEDSI) and climate considerations. Combining workshops in Jakarta with a 2-week Australian component in Brisbane and Sydney, the course featured site visits to Cross River Rail and Sydney Metro. Participants applied their learning through Award Projects, delivering policy-

focused analysis and recommendations to improve Indonesia's infrastructure regulatory environment.

- securing over A$500,000 of funding in 2025 to help Vietnamese communities better adapt to climate change and safeguard food security. The project ‘Smart Pollination Management to Improve Fruit Production in Vietnam’ is funded through the Aus4Innovation Partnership Grants program and reinforces UQ’s commitment to Vietnam’s national development priorities, including science, technology and innovation, agriculture and food technology, public health and capacity building in the higher education sector. The project aims to improve and advance precision agricultural tools and technologies that improve crop yields and support more resilient farming systems. Over its 19-month timeline, the initiative leverages AI, insect tracking and environmental monitoring to deliver actionable insights to farmers via a mobile app, optimising crop yields. In line with Aus4Innovation principles, the project also emphasises inclusive innovation by ensuring women, people with disabilities and other underrepresented groups within farming communities can benefit from improved access to technology and agricultural information.
- hosting the 18th Annual Latin American Colloquium. UQ further strengthened Australia-Latin America research, industry and government connections through the 18th Annual Latin American Colloquium ‘Biofuels: Driving Innovation, Powering the Future in Latin America and Australia’. Held at UQ St Lucia, the colloquium brought together speakers and panellists from both regions to consider how biofuels can support the global transition to a sustainable energy future. The program highlighted UQ’s long-standing engagement with Latin America, including partnerships with universities, government agencies, NGOs and industry, and showcased the role of collaborative initiatives such as the Global Bioeconomy Alliance and the Sustainable Minerals Institute International Centre of Excellence in Chile. By connecting expertise across research, commercialisation, policy and industry, the colloquium supported SDG 9 through innovation-led partnerships that advance sustainable infrastructure, industrial transformation and low-emissions technologies.
- hosting UQ-Indian Institute of Technology Delhi (IITD) Research Academy Annual Symposium 2025. Held at UQ St Lucia from 1 to 2 July, the Symposium brought together around 180 participants including government, industry partners, PhD students and academics from both UQ and IITD to explore collaborative research initiatives aimed at addressing sustainability challenges and fostering innovation between Australia and India. Under the theme 'Innovating Together: Australia-India Research Partnerships for a Sustainable Future', panel sessions featured prominent industry leaders including the Australia India Business Council (AIBC), Shajanand Medical Technologies India, HCLTech Australia and New Zealand, Vaxxas Biomedical Facility and Stanwell Energy Future Australia. Keynote presenter Queensland Chief Scientist Professor Kerrie Wilson affirmed India’s importance to Australian research priorities and highlighted the UQ-IITD partnership’s alignment with national sustainability strategies.
- contributing to the Key Technologies in Bioeconomy (KTB) conference. Held from 29 September to 3 October 2025 and hosted by the Technical University of Denmark (DTU), UQ drove international climate dialogue as one of the four founding members and long-term co-organisers of the Global Bioeconomy Alliance (GBA) alongside DTU,

Technical University of Munich and São Paulo State University. The annual event brought together more than 200 global representatives from research institutions, industry and government agencies across Europe, Australia, Latin America and beyond. The conference featured 3 sessions exploring key questions: 'How can the world's leading bioeconomy nations collaborate across borders?', 'How do we build a common European approach and scale solutions globally?' and the industry perspective 'What challenges does the sector face when scaling biosolutions?', with a central consensus emerging that biosolutions play a central role in the future economy and Europe needs to accelerate efforts to bring these solutions to market.

Securing our future

To achieve UQ's mission of delivering for the public good, the University must ensure it is securely positioned for the future. This involves diversifying UQ's revenue base and investing purposefully in the infrastructure, systems, people and partnerships that will enrich the student experience and broaden the impact of research.

UQ continued to invest in capital infrastructure and digital capabilities to provide vibrant and sustainable campuses and support collaboration with industry, community and government, enabling shared access to state-of-the-art research facilities.

UQ's Collaborative Research Platforms (CRPs)

The University's CRPs span a wide range of fields from microscopy and imaging to plant science, genomics, drones and high-performance computing. What unites them is a shared mission: to support interdisciplinary collaboration by providing fair access to world-class physical and digital infrastructure. However, CRPs are about more than just cutting-edge equipment. At their core, they are powered by people who provide the expertise, insight and innovation that drive research forward. CRPs enable research excellence and impact not only within UQ, but also through close partnerships with industry, government and other universities.

CRPs are embedded within the Research and Innovation portfolio. Through their diverse capabilities, these individual and collective platforms advance SDG 9 by:

- building resilient infrastructure by operating as centralised, high-quality research infrastructures that support diverse research fields and are designed with sustainability and scalability in mind.
- promoting inclusive and sustainable industrialisation through close collaboration with industry partners, driving technology transfer, research commercialisation and regional economic growth.
- fostering innovation by enabling the development and application of new techniques and methodologies that keep UQ at the forefront of global research while training the next generation of engineers, scientists and innovators.

Key infrastructural milestones and strategic advancements achieved throughout 2025 include:

- officially opening the A$65 million Plant Futures Facility in June 2025 to help Australian plant scientists and industry improve crop productivity, secure future food

supplies, extend UQ's involvement in the Australian Plant Phenomics Network and support the work of the ARC Centre for Plant Success in Nature and Agriculture.

- establishing the Queensland Animal Sciences Precinct (QASP) and UQ Materials Performance (UQ MP) as stand-alone CRPs.
- expanding UQ's Bunya supercomputer with a new class of cutting-edge, sector first GPU technologies, enabling UQ to build and train sovereign AI models for a diverse range of targeted translational research in diagnostic medical imaging, drug discovery and globally impactful vaccine development, while growing to a state-scale capability that supports partnering institutions across Queensland as well as its NCRIS partners.
- commencing construction on the Animal Science Futures Facility (ASFF), a Queensland Government-funded initiative to be operated mainly by QASP, which will build on the Lockyer Valley's agricultural success to position Queensland as a primary industries powerhouse, support a modern workforce capable of adapting to a rapidly evolving agrifood sector, strengthen the state's competitive advantage as a global food production destination and spur commercial solutions to current and future challenges.
- expanding the analytical capability of the Centre for Microscopy and Microanalysis' Natural Resources Innovation Characterisation Hub (NRICH), supported by NCRIS and Queensland Government funding, through the acquisition of multiscale, multimodal technologies for elemental and mineralogical characterisation of mineral, metal and e-waste materials, with the hub supporting 81 projects, including approximately 70 external research and industry collaborations, recording 9,029 instrument sessions across NRICH facilities and delivering 228 teaching and training sessions alongside 121 demonstrations and tours.

UQ's network of CRPs comprises:

- UQ Biological Resources
- Centre for Microscopy and Microanalysis
- UQ Data Science
- UQ Drones Platform
- Herston Imaging Research Facility
- UQ Materials Performance
- Nuclear Magnetic Resonance
- Plant Growth
- Protein Expression Facility
- Queensland Animal Science Precinct
- Research Computing Centre
- UQ Sequencing Facility
- Pinjarra Hills.