

Crop science

As global demand for food grows, crop science plays a critical role in addressing challenges such as climate change, water scarcity, sustainability, pests, diseases, and declining soil health. Researchers develop innovative solutions to improve food security while supporting biodiversity, resource conservation, and sustainable agricultural production.

Crop scientists use advanced technologies including sensors, drones, autonomous machinery, AI, and data analytics to improve crop performance, increase yields, enhance resource efficiency, and support better decision-making. Working with industry, government, farmers, and international partners, UQ researchers lead efforts in sustainable farming systems, crop improvement, precision agriculture, soil and water management, and effective pest and disease control.

Researchers

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