Environmental sciences

Our dynamic and dedicated group of environmental sciences academics and research students study and teach the interactions that occur between the physical, biological and human environments. We study how the environment works across space and how these dynamics have changed over time. We are focused on how humans have altered environments and how environments can be better managed in future.

Recently, Associate Professor Phil Taylor was appointed to lead a $20.5 million project with Horticulture Innovation Australia to research an effective sterile insect technique program to curb the prevalence of fruit flies in Australia, while Professor David Raftos won the 2015 Rural Research and Development Corporations Eureka Prize for Rural Innovation for his work safeguarding Australia’s oyster industry.

Our environmental scientists are committed to excellence in research, quality teaching, and efficacious professional and community engagement. They enjoy an international reputation as leaders in their fields – environmental sciences was awarded the maximum rating (5 out of 5 ‘well above world standard’) in the most recent Excellence in Research for Australia analysis. Our research strengths in environmental science and management, physical geography and environmental geoscience, and atmospheric sciences all received the maximum rating of 5. Additionally, other external classifications rank Macquarie University as the number one institution in Australia in environmental sciences and ecology research (ESI, 2014).

As a higher degree research candidate at Macquarie, you’ll be encouraged to take an interdisciplinary approach to addressing contemporary environmental questions, many of which intersect with other fields. Using this approach, your research will help find the answers to questions yet to be asked, and solve the big problems that matter to business and society.

mq.edu.au/research/environmental-sciences
OUR RESEARCH PRIORITIES

We pursue excellence in a broad range of research areas. Our five interdisciplinary strategic research priorities – Healthy People, Resilient Societies, Prosperous Economies, Secure Planet and Innovative Technologies – respond to globally significant challenges and opportunities to improve the lives of millions. Together, these research priorities provide a focal point for research, with discoveries made under these priorities translating into real improvements in the lives of local, national and global communities.

JOINTLY SUPERVISED PHD PROGRAMS

Macquarie actively encourages cotutelles and joint degrees – shared supervision arrangements with universities whose research activity strongly aligns with ours. Under each model, you are enrolled at two universities with a principal supervisor at each and may be eligible for additional scholarship support.

mq.edu.au/cotutelle-and-joint-phd