

**WESTERN SYDNEY  
UNIVERSITY**



Hawkesbury Institute  
for the Environment

# World-Class Research Laboratories

SCIENTIFIC FACILITIES



# World-Class Research Laboratories

The Hawkesbury Institute offers modern, fully-equipped research laboratories based in close proximity to its field-based facilities.

These recently-constructed PC2-compliant laboratories enable researchers to access the latest technology including controlled growth rooms and chambers, industry-certified Next Generation Sequencing labs, laser dissection microscopy, a range of analytical instrumentation for environmental chemistry and the nearby Confocal Microscopy Centre.



## FULLY-EQUIPPED LABORATORIES TO SUPPORT WORLD-CLASS RESEARCH

The Institute has invested heavily in providing the most up-to-date facilities for researchers and collaborators.

These facilities provide comprehensive equipment and technology capabilities including access to:

- Climate controlled growth chambers to manipulate light, temperature, humidity and day length cycles
- Industry-certified Next-Generation sequencing equipment from Illumina and Roche
- A range of analytical instruments including elemental analysers, chemical analysers, GC, GC-MS, HPLC, Uv-Vis and NIR spectrophotometry

“These newly-built lab facilities offer everything a researcher needs to analyse results emerging from the field-based experiments...”

- State of the art molecular biology instrumentation including capillary electrophoresis sequencing
- Laser microdissection microscopy and other microscopes in the Confocal Microscopy facilities within the School of Science and Health

## SCIENTIFIC DIRECTIONS

A team of plant physiologists, soil biologists, molecular biologists, entomologists and ecological modellers study the various aspects of EucFACE experiment.

EucFACE is already providing unprecedented insights into the responses of trees, soils and ecosystems to increased CO<sub>2</sub> levels.

Over 250 different instruments are streaming a variety of data from EucFACE that will enable researchers and collaborators to use the facilities for prediction modelling and to make informed management decisions at a much earlier date than otherwise would have been possible.



**Hawkesbury Institute for the Environment**

Western Sydney University, Locked Bag 1797, Penrith NSW 2751 Australia

Bourke Street, Richmond NSW 2753 Australia. Phone: +61 2 4570 1125 Email: [hieinfo@lists.westernsydney.edu.au](mailto:hieinfo@lists.westernsydney.edu.au)

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