

# CSIRO Forest Hill

Research Facility for Agricultural Innovation

Client	<b>Commonwealth Scientific and Industrial Research Organisation (CSIRO)</b>
Location	<b>Forest Hill, QLD</b>
Services	<b>Full Turnkey</b>
Value	<b>\$2.6M</b>

## OVERVIEW

Fleetwood worked with CSIRO to deliver climate-resilient, prefabricated research a purpose-built, modular research and office facility at Forest Hill, Queensland. The 520m<sup>2</sup> structure, assembled from 21 volumetric modules, was designed to foster collaboration and innovation in agricultural research.

Overcoming the obstacles of reactive clay soils and significant rainfall, the team adopted resilient

construction methods to maintain programme certainty.

Delivered as a turnkey solution and fully compliant with NCC 2022, the facility was operational from day one, supporting CSIRO's research activities and ensuring minimal disruption to ongoing projects.

## SOLUTION

Built on reactive clay soils, the facility uses engineered screw-pile foundations for long-term stability and minimal ground disturbance, even during heavy rainfall.

The 21 modules, including 7 custom roof units, were fully enclosed for immediate weather protection and installed in just 2 days. This design enabled a higher volume without exceeding transport height limits, avoiding costly permits and cutting installation time and emissions.

The building features an elevated roofline, vaulted ceilings for natural ventilation and daylight, and open-plan workspaces for collaboration. Durable, eco-friendly materials ensure long-term performance and easy maintenance.

## Sustainable by Design

Sustainability was embedded with CSIRO's environmental goals.

- Passive solar orientation and natural ventilation reduce energy demand
- Durable materials minimise lifecycle costs and maintenance
- Screw-pile foundations minimise disturbance on reactive clay soils



## BENEFITS

### Purpose-Built for Research and Collaboration

The facility enables CSIRO to advance world-leading agricultural science through modern, modular design

- Open-plan laboratories and offices support cross-disciplinary collaboration
- Vaulted ceilings enhance spatial quality and internal comfort
- Flexible layout allows future expansion and laboratory upgrade

### Innovation in Prefabrication

Fleetwood's modular delivery model ensured precision, quality and efficiency across every phase.

- 70% of works completed off-site for faster delivery
- Elevated roofline achieved within transport limits for improved airflow and light
- Rapid 2-day installation achieved immediate weather-tight enclosure

