



# Medical Science 2 Facility

---



UNIVERSITY *of*  
TASMANIA

MS2 is the second stage of UTAS' Medical Science Precinct, providing teaching and support facilities for undergraduate students, research laboratories, a 254-seat lecture theatre and office accommodation for staff and postgraduate students. MS2 was completed in May 2013, some three years after commencement, and comprises a gross floor area of 9,800m<sup>2</sup>.

★★★★★ **Fifth project certified for Green Star accreditation in Tasmania**

★★★★★ **First building in Tasmania awarded a 5-Star Green Star Education Design v1 rating**

## MS2 environmentally sustainable features include:

### Water

- Fittings of Wells rating 5 or greater
- 80,000L rain water tank
- HVAC system in lieu of traditional water chillers
- Heat rejection and potable water consumption reduced by 50%
- Temporary storage of 80% recycled water for fire system testing
- Storm water filtration.

### Mechanical

- Australian Standard rate of fresh air and air changes exceeded for over 95% of the building
- Quiet, low flow air system.

### Energy

- Solar hot water
- Energy optimising building management system
- Daylight lighting controls
- Energy efficient lighting units with proximity sensor activation.



# Facade and Environment



- Deep, thermally broken and insulated precast façade panels
- Sun shading to lecture theatre to enable natural light without glare
- Glazing frit to theatre lobby to reduce morning solar loading
- External sunshades, thermally broken modular glazing, insulated façade panelling, and blinds to all office/lab environments
- High performance low 2.4 VLT glass used for roof glazing
- Central stair accessible from all areas to encourage use over lift
- Landscaped outdoor podium using native plants (with recycled water irrigation) to enhance occupant well-being



## Materials

- Low VOC emissions and formaldehyde minimisation throughout building materials construction adhesives and glues
- Natural rubber based flooring, recycled timber and recycled carpet materials.

## Waste

- Ongoing whole building recycling waste management
- Waste management recycling and removal included in construction process.

## Transport

- 200 secure bike parking spaces with 10 electric bike charging stations, repair stand with tools, shower and storage facilities.
- Priority parking for small cars.

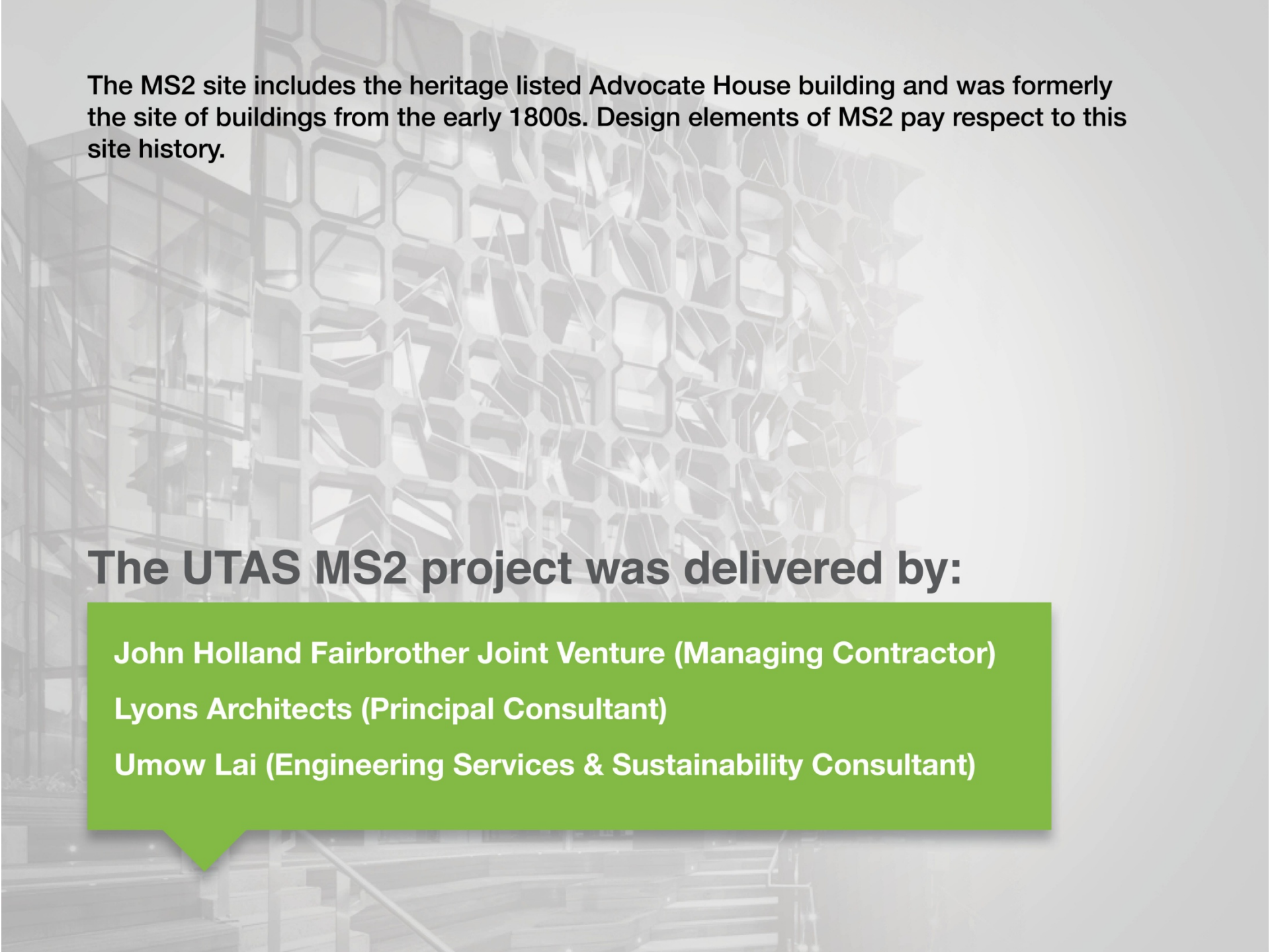


A comprehensive post-occupancy evaluation (POE) was undertaken for the adjoining Medical Science 1 facility, which was completed just prior to the start of the MS2 project. Outcomes from this POE have been included in MS2 to ensure continual improvement was achieved.

## Examples include:

- Internal layout changes to maximise thermal comfort
- Access to light and outside views, and acoustic performance
- Façade changes to provide more effective sun-shading to address glare and thermal comfort
- Movement and light sensors to minimise energy use.





The MS2 site includes the heritage listed Advocate House building and was formerly the site of buildings from the early 1800s. Design elements of MS2 pay respect to this site history.

**The UTAS MS2 project was delivered by:**

**John Holland Fairbrother Joint Venture (Managing Contractor)**

**Lyons Architects (Principal Consultant)**

**Umow Lai (Engineering Services & Sustainability Consultant)**



























# BIKE STORE





























