OTHER KIRK EDUCATION PROJECTS

Advanced Engineering Building

The University of Queensland
Brisbane, Australia •

Advanced Engineering Building Awards

Sir Zelman Cowen Award for Public Architecture

The National Award for Sustainable Architecture

Emil Sodersten Award for Interior Architecture

National Architecture Awards

Creative Industries Precinct 2

Queensland Technology University
Brisbane, Australia •

Academic Building South

Nanyang Technological University
Singapore

Sir Llew Edwards Building

The University of Queensland
Brisbane, Australia

Blackfriars Research Building

University of Technology
Sydney, Australia

Business School

The University of Queensland
Brisbane, Australia •

kirk

Brisbane Studio

11 Logan Road, Woolloongabba
Queensland, 4102, Australia
+61 7 3434 8000
mail@richardkirkarchitect.com

Kuala Lumpur Studio

The Troika, B-8-3, 19 Persiaran KLCC
50450 Kuala Lumpur,
Wilayah Persekutuan, Malaysia
+60 3 2161 1887

The Arc project was awarded through an international architectural competition to Richard Kirk Architect (KIRK) and DCA Architects as the local delivery partner.

• IN JOINT VENTURE WITH HASSELL

THE ARC

Nanyang Technological University, Singapore

GREEN MARK PLATINUM

The Arc at NTU is the first large scale successful realisation of a naturally ventilated education building in the tropics.

kirk

THE ARC

A building that breathes

IMPACT

Sets a new benchmark for sustainable architecture

Encapsulates the unique NTU student experience

Embodies the aspirations of NTU

Synthesises intelligent architecture and engineering

TECHNOLOGY & SUSTAINABILITY

Passive cooling is achieved by the curvilinear ‘Arc’ building form

Employs Computational Fluid Dynamics (CFD) technology to deliver comfortable naturally ventilated spaces

Utilises low energy Passive Displacement Ventilation for internal spaces

PEDAGOGY

Transforms the delivery of tertiary education

Supports collaborative and active learning

Leverages technology to ensure future viability

ARCHITECTURE

Reimagines tropical architecture as a permeable and open building

Self-shading façade of fine elements that transform the building between night and day

Aligns passive sustainability with open learning

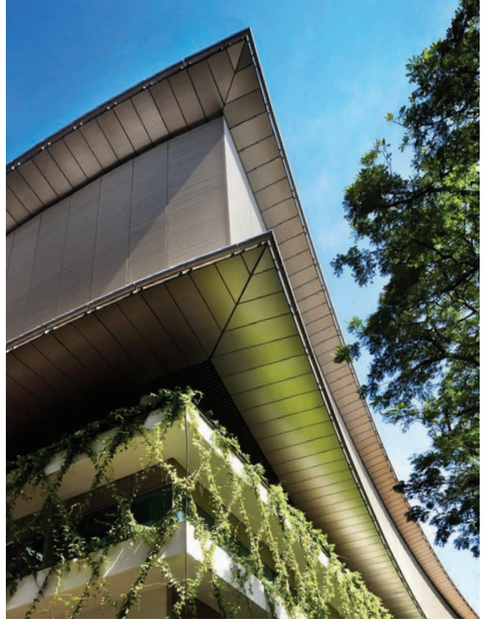
Resolves an extensive building program

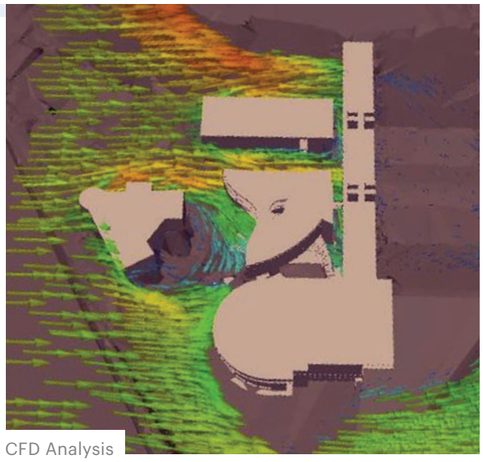
SITE

Creates a vibrant campus heart and strengthens cross-campus links

Embraces a tropical climate and landscape

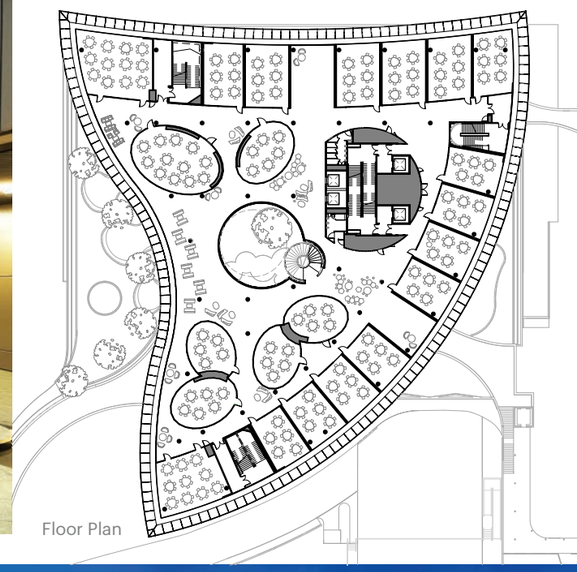
Makes a civic gesture





CFD Analysis

Naturally Ventilated Atrium



Floor Plan