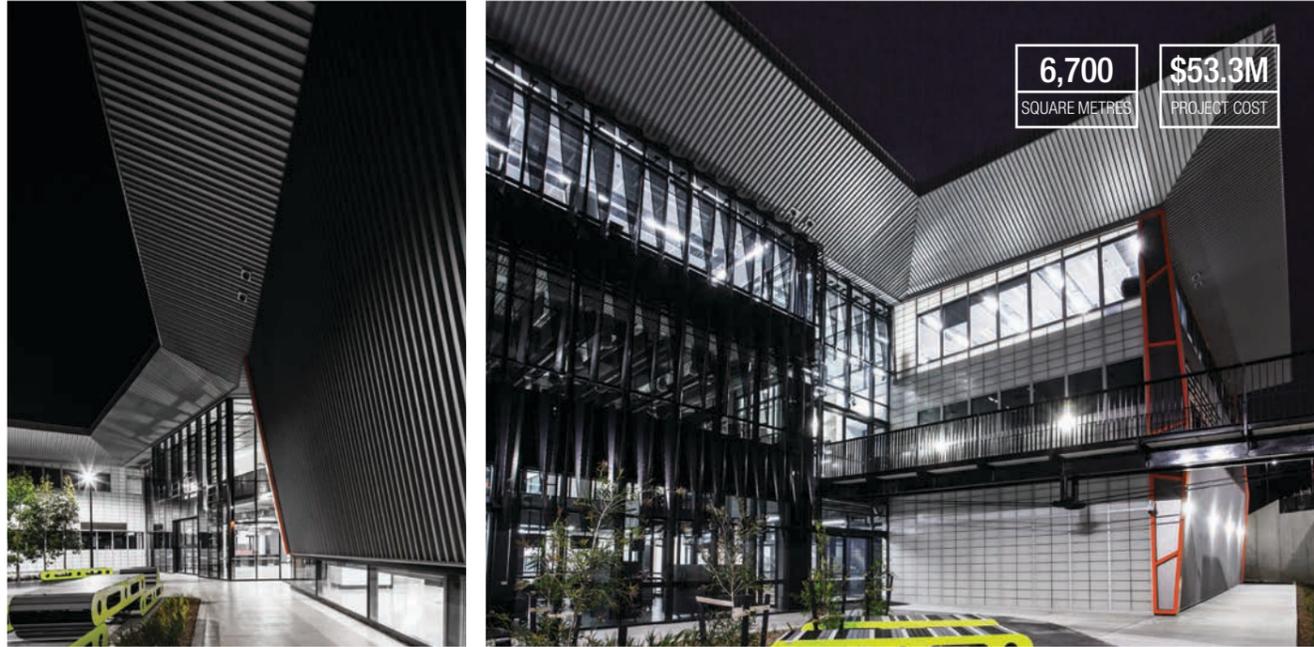


DEAKIN UNIVERSITY CADET

THE CENTRE FOR ADVANCED DESIGN IN ENGINEERING TRAINING
AIMS TO BE UNIQUE IN THE AUSTRALIAN CONTEXT.



At the outset of the project, the client leadership identified a need for the building to be a unique facility which facilitates a different approach to the teaching of engineering, embedding research activity, emphasising design and with a curriculum aligned to both school and industry needs. Traditional fields of mechanical, civil, electrical and chemical engineering were to be seamlessly re-visioned and united, supported by the concept of project oriented design based learning.

Through an extensive exploration of the learning model alongside international examples and review of learning space typologies, planning teams from existing curriculum streams worked collaboratively to establish a facility brief for a new type of engineering facility, consistent with and supportive of the new pedagogy.

By placing key emphasis on research, design and collaboration at the centre of the new curriculum, the planning team was able to realise a series of new spaces and functional relationships which would support the cultural change necessary for students and staff transitioning from the traditional modes of learning and working.

With shared design studios, product realisation workshops, large studio based specialist laboratories, numerous informal spaces for interaction and collaboration and a unique academic staff workplace environment, CADET is well placed to become an outstanding example of possibilities for the next generation of engineering graduates in Australia.

Many of the internal areas have been positioned not only for functional, spatial and infrastructure requirements, but by their ability to be reconfigured, expanded or re-fitted for other uses.

By exploring access and usage of strategic equipment and highly serviced technical areas, the planning teams were able to develop an understanding of "how to do things better". This resulted in many of the originally briefed spaces being re-visioned as more flexible learning or specialist environments capable of supporting a diverse range of functions and curriculum models.

By ensuring a diverse mix of learning settings, open flexible workspace and easily reconfigured studio environments, many areas within CADET are able to adapt on a regular basis to the needs of the student, the project underway, the curriculum and industry requirements.

2017 ASSOCIATION FOR LEARNING ENVIRONMENTS (A4LE, PREVIOUSLY CEPFI), AUSTRALASIAN EDUCATION FACILITY PLANNING AWARDS, NEW EDUCATION FACILITY CONSTRUCTION / ENTIRE EDUCATION FACILITY, WINN

2015 ASSOCIATION FOR LEARNING ENVIRONMENTS (A4LE, PREVIOUSLY CEPFI), VICTORIA CHAPTER EDUCATION FACILITY PLANNING AWARDS, NEW EDUCATION FACILITY CONSTRUCTION / ENTIRE EDUCATION FACILITY, COMMENDATION

