PEOPLE

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RESEARCH PROGRAMS

INNOVATION IN DESIGN AND MANUFACTURING
Enable designing and manufacturing of affordable mass-customised prefabricated housing using automated manufacturing platforms

ADVANCED BUILDING SYSTEMS AND ASSEMBLY
Enable technological advancements in modular building system and assembly by developing new conceptual systems and assembly taking into account the multi-functional requirements

NOVEL MATERIALS AND COMPOSITE/HYBRID SYSTEMS
Developing light-weight high strength multi-graded composite materials & elements and hybrid components

SUPPLY CHAIN AND FINANCING INNOVATION
Mapping new supply chains and creating new financing models for prefabricated building sector with the engagement of financial institutions

ARC CENTRE FOR ADVANCED MANUFACTURING OF PREFABRICATED HOUSING
Unlocking the potential growth of Australia's prefabricated building industry
ARC CAMPH
UNLOCKING THE POTENTIAL GROWTH OF AUSTRALIA’S PREFABRICATED BUILDING INDUSTRY

Driven by industry, the ARC Training Centre for Advanced Manufacturing of Prefabricated Housing (CAMPH) is the centrepiece for collaborative, eco-friendly, prefabricated housing research in Australia, striving to deliver breakthrough product and process innovations that will enable the Australian housing industry to compete on a global stage. The centre aims to unlock the potential growth of Australia’s prefabricated building industry by creating a co-operative training system between industry and universities leading to local employment growth; and increased exports of prefabricated products and services.

The Centre brings together a highly collaborative venture involving four universities and twelve industry partners. The four research programs being run in the Centre are:

1. Innovation in design and enhancement of end-user experience
2. Developing advanced building systems and assembly techniques
3. Creating novel materials and composite structures
4. Supply chain and financing models

This initiative is a testament to the critical importance of this industry in Australia and demonstrates the value that both industry and government place in collaborative, cross-disciplinary research. The Centre will, in partnership with industry, prepare the next generation of industry professionals and researchers, develop materials and systems, and design thinking that will transform the construction industry towards an advanced manufacturing future.

To inspire and lead the transformation of societies through the provision of affordable and high-quality housing

To create a training pipeline that enables rapid growth of the emerging prefab manufacturing industry to deliver affordable and high-quality housing through innovation and streamlining of the supply chain

CAPABILITIES

- Structural Testing
- Structural Modelling, Analysis and Optimization
- Non-destructive Testing
- Acoustic, Thermal and Indoor Environment Quality (IEQ)
- Fire Performance of Prefabricated Structures
- Life Cycle Assessment of Prefab Building
- Energy Performance and Simulation