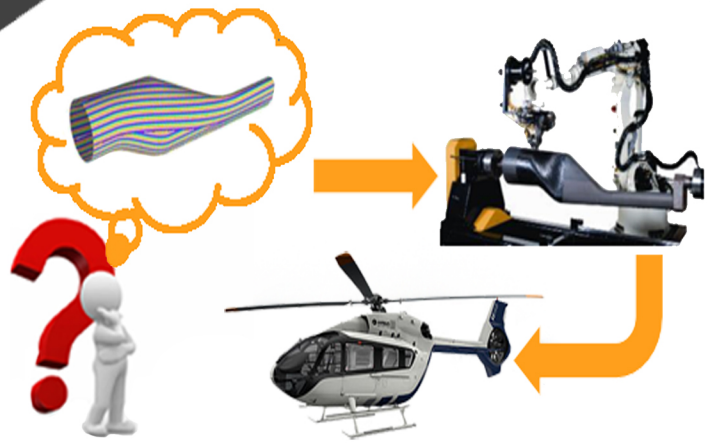
Our Strength

- Australia's only Automated Fibre Placement (AFP) robot.
- Integrated composites facility for automotive and aerospace applications.
- Structural testing of large components with complex loading capability.
- Material characterisation, design, analysis, lay-up, curing and testing.
- Ready to partner with industry for fundamental and applied research opportunities.



Concept to reality

For more information, please contact us:

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automated manufacture of advanced composites

Australian Government
Australian Research Council

ARC Training Centre for Automated Manufacture of Advanced Composites

Our Vision

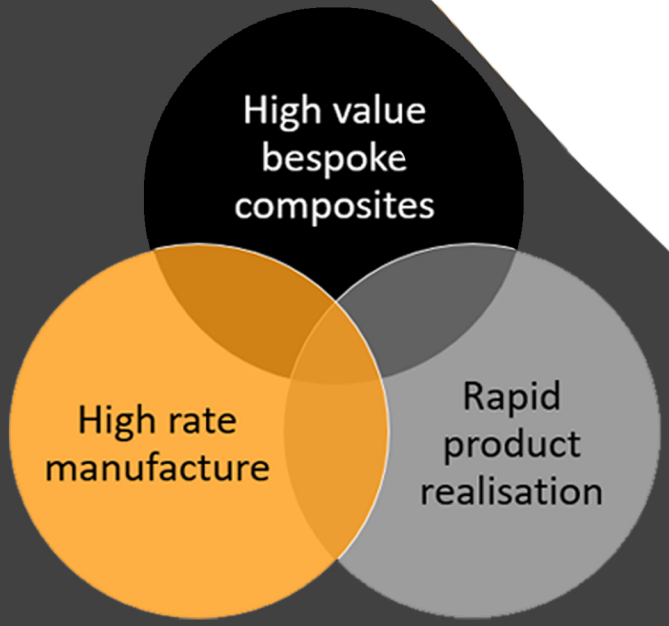
To incubate the next generation of automated composite manufacturing innovations and innovators to drive future business in a highly collaborative environment.

UNSW SYDNEY

Australian National University

TECHNISCHE UNIVERSITÄT MÜNCHEN

Our Target



Who are we?

The Australian Research Council (ARC) Training Centre for Automated Manufacture of Advanced Composites (AMAC) is established under the Industrial Transformation Research Program (ITRP) of the Australian Government. The University of New South Wales (UNSW) led Centre is a collaboration between the Australian National University (ANU), the Technical University of Munich (TUM) and nine industry partners.

Industry relevant outcomes

Materials / Process Enhancement
1. Advanced Composite Processing
2. Process analysis and Modeling
3. Multifunctional Materials

Simulations & Performance Prediction
1. Micro/Nano Characterisation
2. Strength and Failure Prediction
3. Robotic Infrastructure

Design, Integration and Optimisation
1. Structural Health Monitoring
2. Sensing/Communication
3. Structural Optimisation

Our Partners

AIS

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Ford Go Further

Omni TANKER LIGHTWEIGHT - VERSATILE - DURABLE - SAFE

FEI

ACS AUSTRALIA

CARBONIX

NSW GOVERNMENT Department of Industry

DST GROUP

AFPT