



The Defence Materials Technology Centre is a partnership between industry, universities, government research agencies and Commonwealth and State Governments.

The University of Wollongong (UOW) will play a major role in the new \$85 million centre designed to give Australian industry a leading edge in winning national and international defence contracts. UOW is the only NSW University participating in the new centre and has received NSW Government funding support. UOW will lead the Armour Applications program and Professor John Norrish from UOW is now a Board Member of the Centre.

UOW researchers will be developing new materials for land, sea and air defence platforms. Significant outcomes to be delivered include improved armour protection for military personnel carriers and new high-tech materials for use in major defence acquisitions, such as the Joint Strike Fighter.

The DMTC will receive \$30 million in Commonwealth Government funding over the next seven years, with the remaining funding coming from the collaborative partners. It is the first to be established under the Defence Future Capability Technology Centre Program, modelled on the Commonwealth's successful Cooperative Research Centres (CRC) Program.

The DMTC has:

- Industry-led research programs covering all Defence platform areas
- A clear path for adoption through Industry to Defence
- Strong member commitment - \$17M cash and 213 full time equivalent staff working on DMTC projects
- A highly experienced management and governance team from 2 successful CRC's with expertise in managing research in industry and academia and managing education, training and technology transfer programs. As well all participants have people with considerable experience in Intellectual Property capture and commercialisation.

DMTC Research Program

The research program was developed through an iterative consultative process between industry, DSTO and research providers. There are 4 programs:

1. Air platforms

- Prognostic tools to reduce corrosion impacts
- Rapid reliable detection and analysis of composite defects
- Repair technologies for next generation gas turbine engines

2. Marine platforms

- Technologies for repair and improved performance of marine components

3. Armour applications

- Titanium components for the Joint Strike Fighter
- High strength steels for armour, ships and land based vehicles
- Multifunctional composites and ceramics for ships and aircraft

4. Propulsion systems

- Hypersonic materials trialled on Hyshot test flights

The DMTC will also have an Education and Training focus to:

- Maintain a strong postgraduate and undergraduate research program.
- Promote close industry involvement that enhances the skills of graduates and facilitates technology transfer.
- Develop and facilitate modular taught courses from postgraduate to vocational level.

Course contents will include: basic material science, Defence material requirements, degradation and repair, maintenance and reclamation, ballistic and blast performance, fabrication considerations and production technologies.

If you would like any further information or would like to discuss whether your research expertise may be useful to the DMTC please contact:

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University of Wollongong

