



imcrc

we champion  
manufacturing  
innovation

Guidelines

## Masters by Coursework Scholarship



Australian Government  
Department of Industry, Science,  
Energy and Resources

**Business**  
Cooperative Research  
Centres Program

## 1. Funding Objectives

For the next generation to think of manufacturing as an interesting career path, and help to catalyse the transformation of Australian manufacturing, this scholarship is designed to encourage and support domestic students to participate in an industry-led, manufacturing focused research project.

## 2. Scholarship Details

- i) A \$5000 scholarship will be awarded to Masters by Coursework students who are enrolled in a semester-long research unit with a thesis component at completion of the unit.
- ii) The scholarship is awarded on a competitive basis – students from participating universities will need to apply for the scholarship, and will be selected based on research project eligibility, previous semester's results, and short answers to three questions around the research project and Australian manufacturing.
- iii) 10 scholarships will be offered.
- iv) Commencement date: Semester 1, 2021

## 3. Research Project Eligibility Criteria

- i) Research project must involve an industry partner and can be performed either within the university or at the industry partner's facilities.
- ii) Research project must aim to solve a problem relevant to or create an opportunity for Australian manufacturing.
- iii) Project must have an industry supervisor / mentor.

Selection Criteria	Details
Proposed research aligns with IMCRC research themes	<ul style="list-style-type: none"> <li>• Additive manufacturing</li> <li>• Automation and robotics</li> <li>• Advanced materials</li> <li>• AR/VR</li> <li>• Sensors and data analytics</li> <li>• Business transformation / Industry 4.0</li> </ul>
Proposed research focuses largely on Manufacturing Readiness Level (MRL) 3 or higher	MRL 3 includes research where there is an early proof of concept. See research examples below
Proposed research involves an Australian manufacturer or an organisation which contributes significantly to Australia's manufacturing innovation ecosystem	This includes global manufacturers with significant operations in Australia
Proposed research will reasonably lead to manufacturing outcomes in Australia	The research should result in developing positive changes in the manufacturing partner e.g. discover or develop opportunities for industry diversification to access new

markets; new product or process development; new business models; service extension or improvement; value chain creation; local supplier development; global supply chain access; net export growth; collaboration and industry involvement etc

#### Research examples:

- Develop algorithm to automate complex 3D printing toolpath.
- Design software to be used with AR headset to train factory workers.
- Analyse complex data from different supply chains to streamline logistics
- Improve thermal properties of a novel material.

## 4. Student Eligibility

- i) Domestic student (Australian citizen or permanent visa holder)
- ii) Masters student enrolled full-time in an IMCRC Essential Participant university
- iii) Previous semester results must have at least a Credit Average (>60%)
- iv) Has been accepted into an eligible research project (See section 2 - Research Project Eligibility Criteria) in any department within an IMCRC Essential Participant university

## 5. IMCRC Essential Participant Universities

- Deakin University
- Flinders University
- Griffith University
- RMIT University
- Queensland University of Technology (QUT)
- Swinburne University
- University of South Australia
- University of Technology Sydney (UTS)
- University of Sydney

## 6. Student Commitment

- i) 5 minute in-person and/or video presentation to IMCRC, industry supervisor / mentor, and academic supervisor, organised between IMCRC and scholarship recipient
- ii) A one-page description of the research project and outcomes that will be published on the IMCRC website.

## 7. Timeline

	Due date
Scholarship applications open	1 September 2020
Scholarship applications close	25 February 2021
Application review completed	5 March 2021
Successful applicants and university notified	12 March 2021
Scholarship confirmed and agreement signed	26 March 2021
Scholarship awarded/paid	30 April 2021

## 8. How to apply

To apply for a scholarship, please follow the link [HERE](#).

As part of the application process, you will need to answer the questions below on which your application will be scored:

- What is the research problem / opportunity?
- How will your research project solve the problem / create an opportunity?
- How does your research project benefit Australian manufacturing?

You will also need to provide a single pdf which includes

- Your current resume
- A copy of your most recent academic record
- Support letter from the academic or industry supervisor
- Contact details of your academic supervisor as well as the industry partner

## 9. Contact

Should you have any queries about the scholarship including project and course eligibility, please contact Dr Min-Yin Yap, Project Research and Education Officer at IMCRC, via email [minyin.yap@imcrc.org](mailto:minyin.yap@imcrc.org).

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Building 91, 110 Victoria Street  
Carlton, VIC 3053, Australia

[imcrc.org](http://imcrc.org)  
ABN 24 607 527 499



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