



# ARC CPTT

Centre for Personalised Therapeutics Technologies



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The ARC Centre for Personalised Therapeutics Technologies is an Industrial Transformation Training Centre comprising a multidisciplinary collaboration between academic researchers and industry partners.

The Centre aims to advance and deploy new technologies that will remove long-standing barriers to drug discovery and development, while training early career researchers to transform the way the Medical Technology and Pharmaceutical (MTP) industry accesses these emergent technologies.

## RESEARCH THEMES

The Centre brings together the expertise needed to develop breakthrough enabling technology for new industrial applications of cell/organ-on-a-chip technology, including the use of 3D bioprinting technologies. The combination of new microfluidics-based/real-time technologies and the use of individual patient's cellular and molecular research findings will provide technology platforms that enable personalised diagnostic and therapeutic decisions.


The Training Centre research themes are built around three industry needs:

1. New real-time cell/organoid assay technologies to validate drug lead qualification
2. Mechanistic, diagnostic, and therapeutic precision medicine developments using organoids
3. Bioprinting using gene-edited cells and micro-tissues to develop precision disease modelling

 For more information, visit [therapeutics-technologies.com.au](https://therapeutics-technologies.com.au)

We invite you to contact us to find out more:

 [therapeutics-technologies.com.au](https://therapeutics-technologies.com.au)

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 [@ARC\\_CPTT](https://twitter.com/ARC_CPTT)



## TRAINING PROGRAM

Importantly, we are training early career biomedical researchers with entrepreneurial and commercial skills, alongside the technology development. The Centre fosters close partnerships between university-based researchers and MedTech and Pharma/Biotech industry-based end-users to provide experience in commercial settings, including industry placements and access to mentorship.

The training program is structured as multi-site, collaborative, experiential, virtual and face-to-face. Activities include:

- Educational training workshops
- Mentorship
- Internships (short term)
- Placements (longer term)
- Access to MTPConnect Accelerating Australia Programs

## OPPORTUNITIES WITH THE TRAINING CENTRE

The industrial transformation training centre brings together some of Australia's brightest early career researchers in the biotech field to train under the nation's foremost scientists. Significant opportunities are available for engaging with the Centre, including PhD scholarships and opportunities to develop end-user driven research projects.



**Australian Government**

**Australian Research Council**

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Headquartered at The University of Melbourne, the joint venture brings together the following research partners:

