

# REINFORCED AND MOULDED PLASTICS TECHNOLOGY STATION (RMPTS)

Reinforced & Moulded Plastics Technology Station (RMPTS) is located in the Durban University of Technology (DUT) in KwaZulu Natal, Durban at the Steve Biko Campus.

RMPTS is the technology transfer mechanism for the Centre for Advanced Material, Design & Manufacture with a mission of advancing the reinforced and moulded plastics sector through technological innovation, forward thinking and research & development.

The department specialises in composite materials and plastic tooling technology and this saw the decision to formalise the technology transfer of the department in the TS with a focus on reinforced and moulded plastics.

The Station is very well equipped currently and is able to assist industry with respect to design, specimen testing, prototype construction, tooling fabrication, metrology, limited production runs and general machining.

The main focus of the TS is to provide companies within the reinforced and moulded plastics sectors with assistance in product design, prototype development and tooling design, development and manufacture.



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## TECHNOLOGY COMPETENCIES AND OFFERINGS

Generally, the Station specializes in conceptual design, design analysis, optimization and verification of non-metallic and metallic:

- **Aerospace and other advanced structures**
- **Custom fabrications**
- **Pressure and vacuum vessels**
- **Process tanks and vessels**
- **Specialized process equipment**
- **Piping and ducting systems**

### Technology Station Services:

- Design and fabrication of injection moulds and tools
- Design and fabrication of mechanical parts and systems, jigs and fixtures
- Failure analysis
- 3, 4 and 5-axis CNC milling
- CNC turning
- Metrology
- 3D printing

## CONTACT DETAILS

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