

ADAPTRONICS ADVANCED MANUFACTURING TECHNOLOGY LABORATORY (AMTL)

Adaptronics Advanced Manufacturing Technology Laboratory (AMTL) is located at the Cape Peninsula University of Technology (CPUT), Bellville Campus.

The primary objective of the unit is to specialise as a national manufacturing, research and educational resource centre for Adaptronics Technologies in South Africa. Adaptronics is the technology that integrates sensor and actuator functions into materials, components and structures so that they may react to environment stimuli thus making them intelligent.

Four Research and Technology focus areas of specialization have established.



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TECHNOLOGY COMPETENCIES AND OFFERINGS

- **Adaptronics Technology**
- **Automotive Technologies**
- **Ocean Engineering**
- **Universal Design**

Adaptronics Technology

Research and Technology projects into the development of intelligent structures, MEMS and Nano-Sensing Devices.

Automotive Technologies

Research and Technology projects related to motorsport and alternative/green propulsion systems.

Ocean Engineering

Research and Technology projects related to maritime applications.

Universal Design

Research and Technology projects providing access to physically challenged individuals.

These areas form the foundation of the Adaptronics AMTL's Human Capital Development Programme, and include student R&T projects ranging from Internships, Bachelors, Masters, Doctoral and Post-Doctoral activities. AMTL has dedicated staff of Technologist, Technicians, and Artisans involved in industry related activities ranging from design, prototyping, testing; and process and programme development.

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