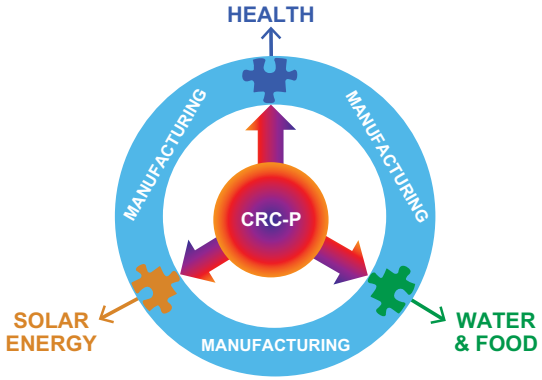
Education

Our Education & training program provides highly trained polymer researchers required for the Australian economy to meet its growing need for skills in advanced materials. The program provides:

- Scholarship support for PhD studies in areas related to the Centre's research activities as well as career broadening training
- Seminars which highlight both the challenges and research solutions being addressed by the Centre
- Polymer Summer Schools



Polymer technology: often the missing piece in the technology portfolio required to develop innovative products

Collaboration

The CRC for Polymers makes its research network available to assist companies develop products for a wide range of applications where a requirement is a polymer tailored for the specific application. The Centre also has a portfolio of technologies that is has developed and welcomes companies interested in technology commercialisation. Contact us for more details

The **CRC for Polymers** provides expertise in tailoring the architecture and compositions of polymers to provide novel properties required by manufacturers.

POLYMER SCIENCE

- Synthesis
- Biopolymers
- Surface Chemistry
- Chemical modification
- Compounding
- Characterisation
- Structure-property
- Degradation

POLYMER ENGINEERING

Skills

Our research expertise is drawn from 11 Australian universities, CSIRO and ANSTO. The necessary skills for a given development project are drawn from this broad knowledge base of polymer science and engineering.

The **CRC for Polymers** assists Australian manufacturing to develop products that meet emerging global needs in three areas:

- Health therapies and delivery
- Water and food security and low-cost energy from
- Polymer solar cells

- using enabling and sustainable advanced polymer technology.

Cooperative Research Centre for Polymers
Solutions for a better world

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Cooperative Research Centre for Polymers
Solutions for a better world

Cooperative Research Centre for Polymers

Solutions for a better world

Collaborating with manufacturers to develop innovative products using enabling polymer technology

Australian Government
Department of Industry
Business Cooperative Research Centres Program

Our Research

Health Therapies and Delivery

The Health Therapies & Delivery program seeks to grow the biotechnology sector and to improve health outcomes by developing products that require polymer technologies for therapies and their delivery in human and animal health applications.

The research involves understanding the interactions between polymers and biological materials, and tailoring the architecture and composition of synthetic polymers and biopolymers for use in biological applications. It includes developing:

- Synthetic polymer surfaces for the production of adult mesenchymal precursor cells, and
- A single injection vaccine with a biopolymer-based delivery system for control of cattle tick.

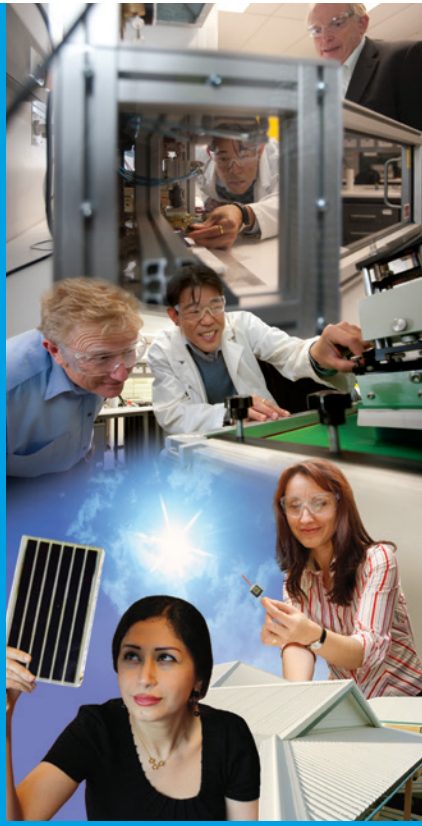
Water and Food Security

This program is developing polymer technologies which aim to assist Australian farmers meet the growing global demand for food by addressing water scarcity and improving crop yields.

The collaborative research involves expertise in polymer chemistry, water studies, microbiology, agronomy and soil science. It includes developing:

- A system for controlling the air-water interface and reducing evaporation from water storages
- Polymers for improving soil moisture management and cropping productivity, and
- Polyolefin-biopolymer films for more sustainable agricultural production.

Polymer Solar Cells



This program is developing materials and technologies for the production of commercially viable flexible solar cells. It seeks to develop materials and technologies for use in the production of low-cost polymer based solar cells.

An objective is to assist in establishing Australia as a manufacturer and major user of thin film solar cells. It includes the development of a manufacturing process for producing flexible polymer-based dye sensitised solar cells (DSSC).