

COMPETITIVE ANALYSIS ...

KEY PARTICIPANTS ...

Opportunities for Advanced Technological Products and Services

The following section deals with the specific advanced material and industrial technologies opportunities in Singapore. Canadian businesses interested in particular fields should contact SISIR.

In the field of *materials technology*, the government has four target categories to group the industrial activity in Singapore: plastics, metals, chemical and surface technologies.

Developments related to metals involve: failure diagnosis, material characterization and selections, metallurgical investigation and testing. This includes stress corrosion, inclusion counts, failure diagnosis of high temperature alloy and in-place metallography.

The evaluation and characterization of plastics involves :

- infrared spectroscopy,
- curing kinetics, and
- oxidative inductive time for polymers.

Chemical technology materials evaluation seeks to determine the purity or contamination of chemical raw materials and products. Representative fields are in pharmaceuticals, petroleum products, construction materials, additives, vitamins, pesticides and industrial chemicals.

Surface technology material evaluation analyses coating, plating and finished products. The technology covers evaluating paints and metallic finishings.

Singapore's strength lies in secondary R&D; it has reached the highest levels in *product and process technology*. As a result, there is increasing demand for sophisticated technical services in engineering product evaluation concerning mechanical and structural evaluation, computer aided analysis, and electrical and electronic product evaluation.

With *electronics and computer applications*, current demand exists for vision and imaging technology, intelligent systems, sensors and instruments development, and electronic communications and monitoring systems.

Singapore Technologies Industrial Corporation is a partially privatised national conglomerate involved in *high technology goods manufacturing*, primarily weapons. It has four divisions: Industry, Aerospace, Ordnance, and Marine. The company is seeking investment, transfer of technology, and licensing opportunities in:

- Shape Charge Technology
- Millimeter Wave Sensing
- Explosive and Pyrotechnics Technology
- Tank Fire Control Systems

Companies are welcome to bring prospective ideas to Singapore Technologies.